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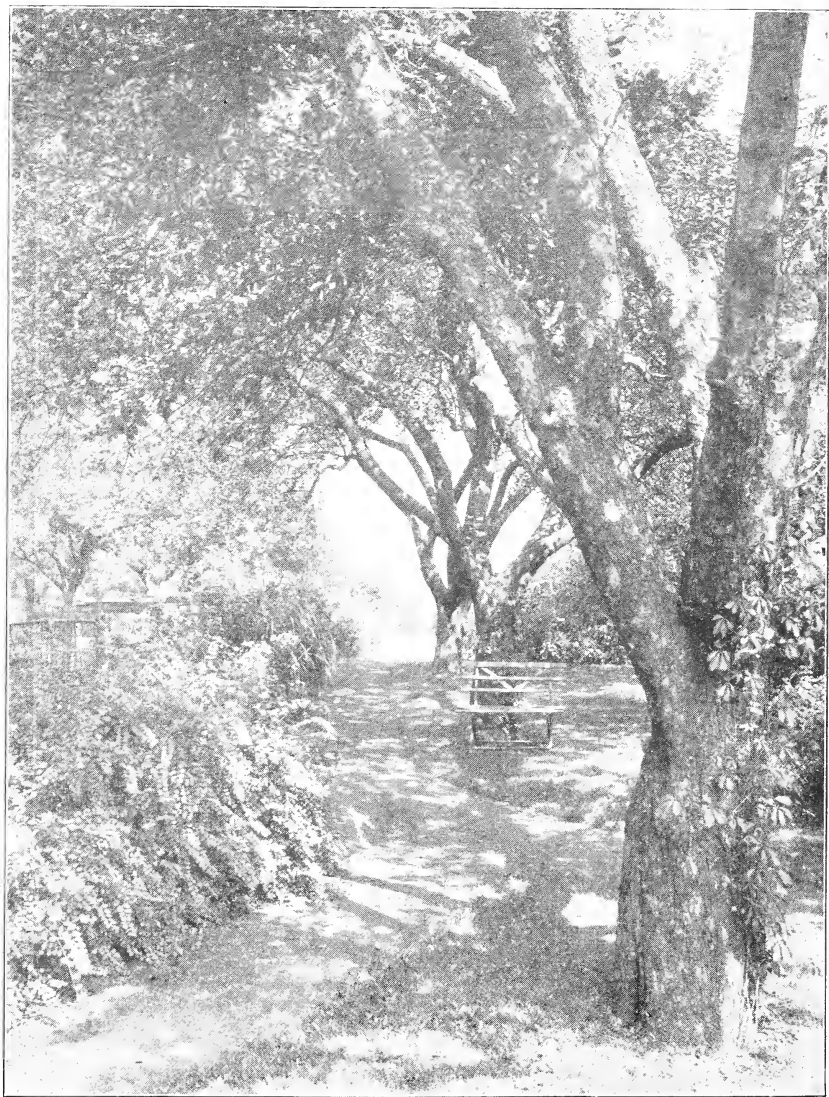
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1917
How to Beautify
Your Home Grounds



NEOSHO NURSERIES CO., NEOSHO, MO.



Isn't This Yard Attractive and Inviting?

The enjoyment of your back yard will be greatly increased by a "natural" combination of the useful and the ornamental.

FOREWORD

Many people hesitate to beautify their home surroundings because they have had little or no experience with ornamental trees and plants, or they may not realize with what little expense and trouble their property can be made more attractive and more valuable. Others who have made the effort are disappointed with their results, become discouraged, and even blame the nurseryman, when all they needed was reliable information on planting and care of their trees and plants.

This little book is designed to show the principles which govern successful planning, planting, pruning, etc. For laying out extensive grounds, and for those who can afford it, we recommend the services of the experienced landscape architect.

Nature herself is the best landscape gardener. By imitating Nature, it is possible to make your place more beautiful. Her principles are followed in this book.

The best method is to plan your entire planting first. Your planting can then be carried out from year to year, according to your time and pocket-book.

In making your plans, don't overlook the ornamental value of such fruit trees as cherry and crabapple particularly, and grapevines also.

NEOSHO NURSERIES Co.,

NEOSHO, MISSOURI

Successors to Wm. P. Stark Nurseries, Inc.

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THE RIGHT AND THE WRONG WAY

The planting of shrubs and trees about the home should have a meaning. Everything should be so arranged as to make the home the center of the picture. The lawn should be open and should not have meaningless trees and bushes scattered promiscuously over it. The right style of planting makes a landscape, even though the area be no larger than a parlor. The other style is simply a collection of curious plants. The one has an instant and lasting pictorial effect which is restful and satisfying. The observer exclaims, "What a beautiful home!" The other piques one's curiosity, obscures the residence, defies and distracts the attention. The observer exclaims, "What beautiful lilac bushes!"—ADAPTED FROM L. H. BAILEY'S BULLETIN ON SUGGESTIONS FOR HOME PLANTING.



Lawn View and Shrubbery Planting.

THE RIGHT WAY

The result is truly beautiful, natural, and harmonious. It looks as if it "just happened"—but it didn't; it took careful planning. The numerous large trees form a background for the house and lawn, and give the appearance of distance and extent. The veteran on the left, standing guard at the entrance of the home, shows how trees may also be planted close in—but note that the wide lawn is not disfigured by scattering "shoe-button" shrubs all over it. The only shrubs on the lawn are two just at the right of the walk, placed there so that a slight curve in the walk can be made around them, breaking what would have been a straight, stiff line to the porch. The walk then curves gracefully to the right along the rising slope, keeping close to the shrubbery border.

Note how the low-growing Rugosas, Barberries, and Deutzias are planted at the outer edge of the mass of shrubbery, then the higher-growing Syringas and Snowball farther back.

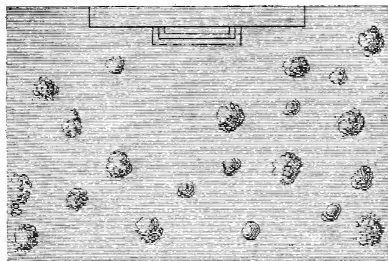
Effective masses of Spirea Van Houttei and Hydrangea are placed at the corners and near the foundation, making the house look as if it "belongs there." The touch of Boston Ivy on the brick-work to the right of the porch is good, as is also the climbing Rose at the corner of the porch. Of all the shrubs, vines, and trees, not one stands out like a museum specimen on exhibition. They all blend together and form a part of the home picture which becomes dearer and more beautiful each year.



Lawn Poorly Planted.

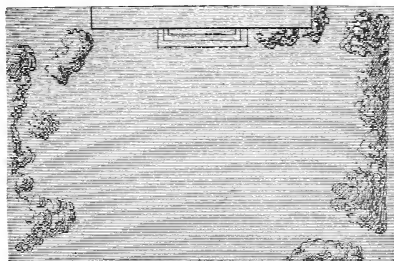
THE WRONG WAY

Everything is neat, but stiff; well kept, but poorly planned. The mass of shrubbery at the right of the door is overgrown and appears out of place. The round flower-bed and formal "shoe-button" shrubs spoil the unity of the planting. Each plant does not do its part to make a complete and beautiful picture. The vine on the porch is the one attractive feature.



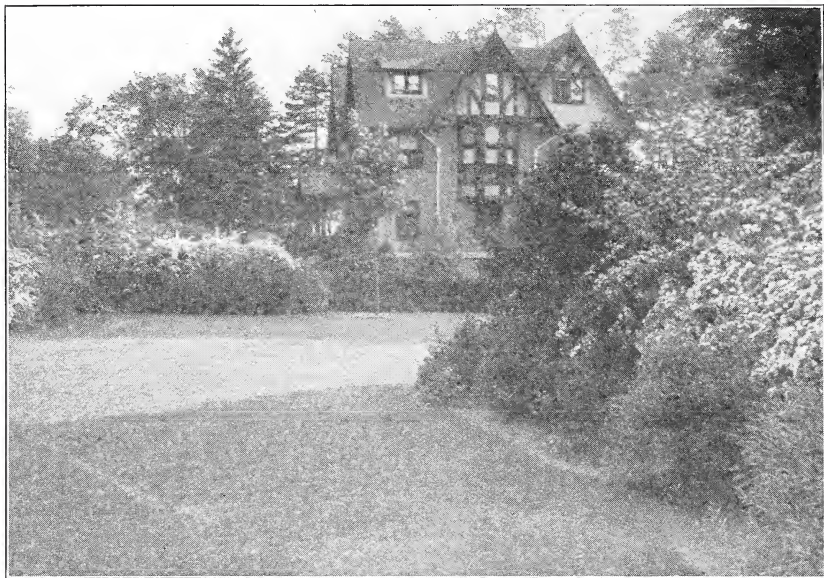
The Wrong Way.

The usual unattractive way of scattering shrubs all over the lawn.



The Right Way.

The natural way of planting in masses to form a picture.



The shrubbery masses in the above picture are exceptionally good. Note the mass in the extreme right-hand corner with the tall Weigela and Lilac in the center; then the medium-growing *Spirea Van Houttei*; then around the outer borders *Deutzia Lemoinei* and other low-growing shrubs. In the shrubbery mass on the left note the tall-growing *Snowball* in the center; next the medium-height *Spirea Van Houttei* and the low spreading Japanese Bush *Honeysuckle*.

SHRUBBERY MASSES

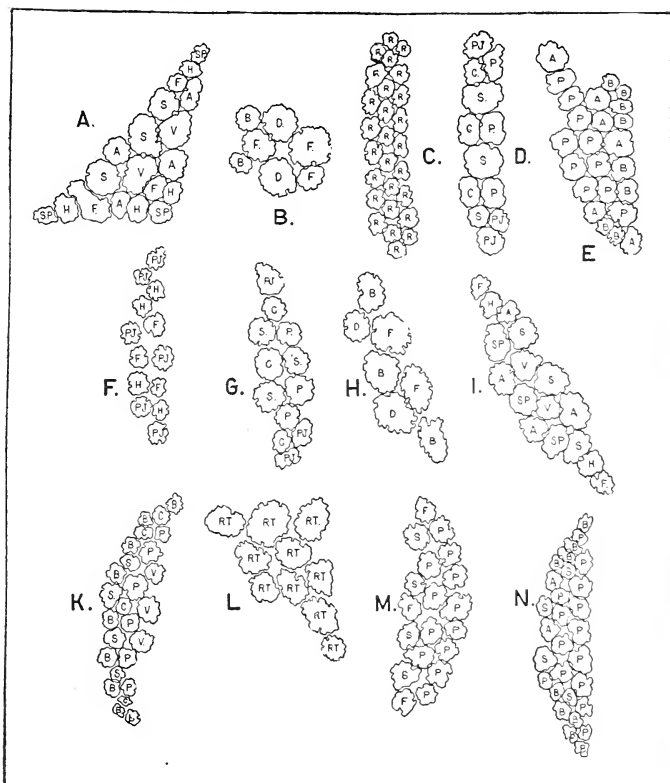
Pleasing results in groups of shrubs do not come from large numbers of the same variety in a single mass, but from harmonious arrangement of different varieties. Each group or plantation should have an excuse for existence, a reason for occupying that particular spot. If there are unsightly rear views, plantations in groups or belts should be provided in order to hide them. If a portion of the ground is to be used for a garden or a stable, planting should be made so as to shut these areas from view effectively. Groups of shrubs are also used to fill in the grooves of walks and drives and the corners, arranged according to form and size. In grouping shrubs, those with a tall, upright habit of growth should occupy a rear or central location, to form general barriers, against which the lower-growing sorts may be arranged in regular gradation.

Plant the low-growing, drooping shrubs near the outer edge. Avoid exposing bare stalks of shrubs in the group. Low-growing, dense foliage plants are as essential to a successful group or border as are the tall-growing sorts. Nature's way is the safest guide.

In all planting the aim should be to conceal the hand of the gardener as much as possible. In small, formal places with straight walks and hedges, the gardener's shears must be used frequently, but always with the idea of producing harmony and symmetry without materially altering the natural growth of the plants.

The arrangement of groups of shrubs on page 7 is adapted from a Government Bulletin by L. I. Corbet. These groups are not offered in collections, but by way of suggestion. Other groups will be found on page 24 and are sold in special collections. It is desirable to combine in each group as much of interest as possible without making it heavy and unattractive.

EXAMPLES OF SHRUBBERY MASSES



DETAIL OF SHRUBBERY GROUPS SHOWN ABOVE

Group A—F, 3 Golden Bell (May); S, 3 Lilac, Common Purple (May); V, 2 Snowball (June); SP, 3 Spirea V. H. (July); A, 4 Althea (August and September); H, 4 Hydrangea P. G. (July to September).

Group B—D, 2 Deutzia, P. of R. (June); F, 3 Golden Bell (May); B, 2 Barberry, Japanese (May to December).

Group C—27 Roses in variety.

Group D—C, 3 Sweet Shrub (June to August); P, 3 Syringa (May); S, 3 Lilac, Common Purple (May to June); PJ, 3 Japan Quince (April to May).

Group E—A, 6 Althea (August to September); B, 8 Barberry, Japanese (May to December); P, 10 California Privet (June to July).

Group F—F, 3 Golden Bell (April to May); H, 4 Hydrangea P. G. (August to September); PJ, 6 Japan Quince (April to May).

Group G—C, 3 Sweet Shrub (June to August); P, 3 Syringa (May to June); S, 3 Lilac, Common Purple (May to June); PJ, 3 Japan Quince (April to May).

Group H—D, 2 Deutzia, P. of R. (June); F, 2 Golden Bell (April to May); B, 3 Barberry, Japanese (May to June).

Group I—F, 2 Golden Bell (April to May); S, 3 Lilac, Common Purple (May to June); V, 2 Snowball (June to July); SP, 3 Spirea V. H. (July); A, 4 Althea (August to September); H, 2 Hydrangea (August to September).

Group K—V, 3 Highbush Cranberry (May to July); S, 4 Lilac, Common Purple (May to June); C, 4 Sweet Shrub (June to August); B, 9 Barberry, Japanese (May to December); P, 6 California Privet (June to July).

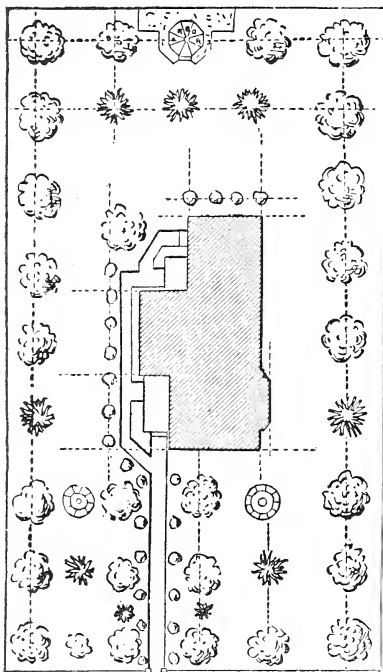
Group L—RT, 10 Staghorn Sumac.

Group M—P, 12 California Privet (June to July); S, 4 Lilac, Common Purple (May to June); F, 3 Golden Bell (April to May).

Group N—P, 14 California Privet (June to July); S, 4 Lilac, Common Purple (May to June); A, 2 Althea (August to September); B, 9 Barberry, Japanese (May to December).

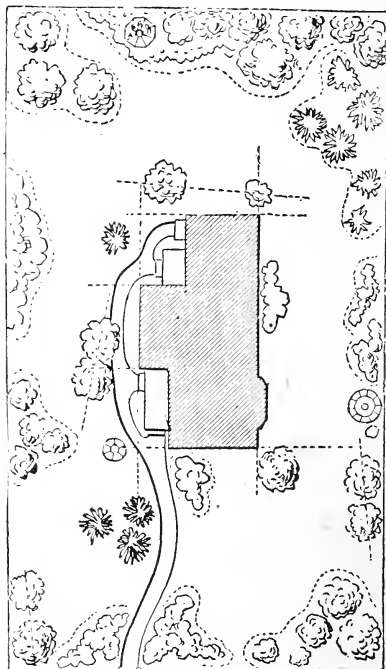
THE ATTRACTIVE VERSUS THE UNATTRACTIVE

Trees should, as a rule, stand either as single specimens in isolated positions or in irregular groups, rather than in long rows. Under certain conditions long avenues of trees, regularly disposed on either side of a driveway or a vista, give a very pleasing and imposing effect to a large place. The general rule for trees also applies to shrubs, except that their use should be chiefly in groups or belts, rather than as specimen plants. Few shrubs possess sufficiently graceful and characteristic habits of growth to make them pleasing when grown singly on the lawns, but where a number of specimens of varying habits are brought together in a single group, the differences are emphasized by contrast and the variety produces a pleasing effect. This is especially true if the rate and habit of growth, as well as the color and character of the foliage, are somewhat different.



The Wrong Way.

The above shows the effect of having the shrubs and trees planted in straight lines and angles like the boundaries of the yard. It is stiff and unattractive.

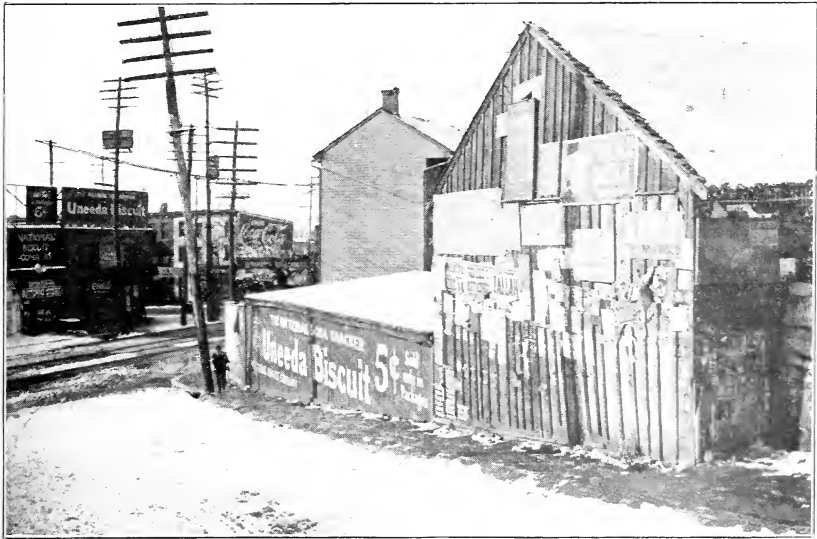


The Right Way.

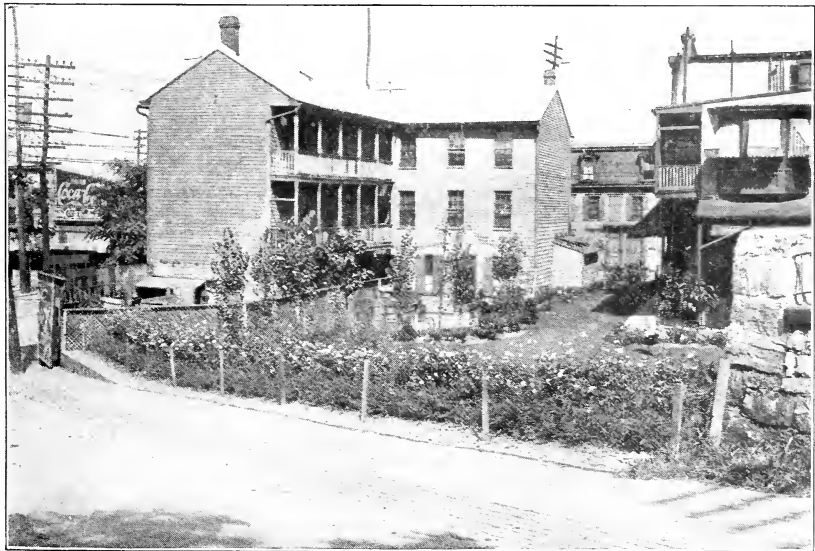
This shows how the proper planting relieves the stiffness of the yard and makes a more attractive setting for the house, at the same time giving an effect of greater extent.

Generally avoid planting in straight lines about the lawn. You will note that the most beautiful natural scenery is strikingly devoid of straight lines.

The boundary and building lines about the home lawn are usually straight. Therefore, to have the lawn as pleasing as possible, it is all the more necessary that the shrubs and trees be planted in irregular masses and groups to relieve the stiffness of the existing straight lines as much as possible.



In nearly every community there are unsightly, disreputable spots similar to the above. They impress visitors unfavorably and retard the growth and development of the town. The responsibility for such conditions lies with the owner, the mayor, and *every other citizen*.



This picture shows the great improvement which a little thought, time, and effort has produced in the place shown above. Unfortunately, property-holders and business men, whose interests are most vitally affected, usually leave such improvements to the women's clubs and schools.



Norway Maple (*Acer Platanoides*).

Everybody appreciates fine trees for their beauty and utility. Every member of the family should plant a tree in the yard. They grow larger and more beautiful every year, adding value to your property. Plant trees now; time will do the rest. Fast-growing kinds are often planted between others and are cut out when the longer-lived, slow-growing trees are big enough.

WINDBREAKS Windbreaks can be made by planting Norway, Sugar or Silver Maple, or Linden (Basswood). These tall-growing trees should be set twenty feet apart, with a second row of Russian Olive. This tree grows lower and bushier and should be planted eight feet apart. The Carolina Poplar and Lombardy Poplar are also very good, quick-growing, tall trees, but not so long-lived.

BECHTEL DOUBLE-FLOWERED CRAB The flowers are a beautiful pink; very sweet-scented; two inches in diameter. (P. *Ioensis*) Best of all the double-flowered Crabs. From a distance the tree looks as if it were loaded with roses. Blooms in May. Grows thirty feet tall. Hardy.



Dogwood.



Bechtel Crab.

BLACK WALNUT The Black Walnut is native to the entire eastern half of the United States and suited to all parts of the West; succeeds on alkali land; leaf-stems one to two feet long, with thirty or more small, tapering, pointed, bright green leaflets on each central stem. Nuts are round, one and one-half inches in diameter; highly flavored kernel; prized by confectioners for richness and quality. Wood is hard, strong, very durable, a beautiful dark brown; used for cabinet-making, gun stocks, etc. Walnut furniture now sells for more than mahogany. The tree is open, spreading, and a faster grower than hickory; attains a height of 60 to 100 feet, sometimes 150 on fertile soil. Should be planted as an ornamental tree, as a nut tree, and as the most valuable fast-growing timber tree of all.

DOGWOOD, COMMON The common white-flowering Dogwood; grows wild in the woods along streams. Large, creamy-white flowers, three to four inches across, come early in the spring before the leaves, followed by clusters of scarlet berries in the fall. Hardy. Grows twenty to thirty feet tall.

ELM, AMERICAN WHITE Beautiful native shade tree. Fine for avenue or streets. Can be planted close to houses, as the high arching branches leave space for air and light. Grows up to 100 feet tall.



Golden Rain Tree.
(*Koeleruteria Paniculata*.)

GOLDEN RAIN TREE—VARNISH TREE The most popular decorative tree from China. Ornamental throughout the entire season, especially adapted for planting in small yards and in groups or clusters; finely divided; attractive green foliage, turning dark red and gold in autumn; clusters of yellow flowers one to two feet long, appear in May, followed by large, bladdery seed-pods two feet long; hardy, also endures drouth, adapted for planting throughout the United States. Its neat foliage, showy flowers and adaptability make it one of the most-desirable medium-sized trees. Grows fifteen to thirty feet high.

GREEN ASH A beautiful spreading tree with broad, rounding top, slender branches; very hardy, long-lived; a rapid grower, especially when young; light green leaves. Extensively planted as an ornamental street and park tree in towns and cities throughout the entire United States; suited to conditions from Saskatchewan, Canada, to the Gulf of Mexico, and especially valuable in the prairie States of the Northwest; grows sixty to seventy feet high, two or three feet in diameter.

HORSE CHESTNUT The most beautiful tree in May—with tall rounded dome (*Æsculus Hippocastanum*) of handsome green leaves and large showy clusters or pyramids of white flowers mottled with red. Its dense growth and heavy tent-like leaves make it ideal for shady bowers, roads, or parks in towns and cities in the North and Eastern United States, where it thrives best and is extensively planted.

LINDEN, OR BASSWOOD White, fragrant flowers, which attract bees. Large heart-shaped leaves. A rapid grower, often reaching a height of 90 feet.
(*Tilia Americana*)

MAPLE, NORWAY A large rounded tree. Dense foliage, smooth, glossy, dark green, turning yellow in the fall. One of the best and longest lived for street, park, or garden. Grows to 100 feet.
(*Acer Platanoides*)

MAPLE, SILVER LEAF The White or Silver Maple is a large, fast-growing tree. Very attractive. Should be planted alternately with the slower-growing but more permanent Sugar or Norway Maples, and cut out when the latter have attained a good size. Grows to 120 feet.
(*Acer Saccharinum*)

MAPLE, SUGAR The Hard or Rock Sugar Maple is the best park, shade, and street tree of all. Beautiful dark green foliage, which turns red and yellow in the autumn. Moderately fast-growing, but hardy, vigorous, and long-lived. Grows to 100 feet.
(*Acer Saccharum*)

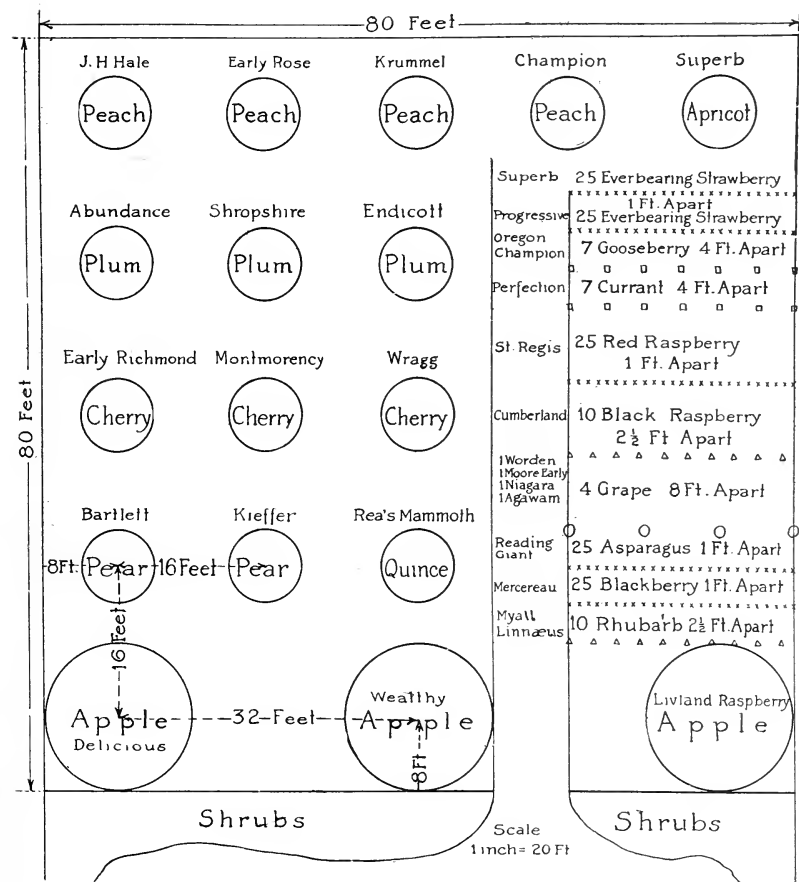
POPLAR, CAROLINA Fastest-growing tree; slender, sometimes 100 feet high. Shiny, bright green leaves. Best for crowded districts of large cities, and as a quick shade tree. Sometimes called "the sudden sawlog." Grows 75 to 100 feet. Should be planted alternately with more permanent trees. Does well in arid States.
(*P. Carolinensis*)

POPLAR, LOMBARDY One of the most striking and picturesque trees. A tall, narrow, columnar tree, growing 60 to 100 feet straight up. The tall spire-shaped tops are landmarks in almost every populated region from the Atlantic to the Pacific, and from the Canadian frontier to the Mexican boundary. Longer-lived than the Carolina Poplar. Bright, glossy green leaves. Used as a windbreak, as it does not spread out; also extensively planted in the Western country to prevent blowing of sand. It is of special value in landscape work where it is planted to relieve monotonous sky-lines and to increase the apparent height of hills.
(*Populus Nigra Italica*)

RUSSIAN OLIVE (Oleaster) The Russian Olive is a large shrub or small tree, 12 to 20 feet high—sometimes grows 40 feet. It is a rapid, spreading grower when young, and will develop an immense head unless kept in shape by pruning. The leaves are small, oval, shiny. The glistening silvery foliage is very pleasing in contrast with the green of other trees. In blooming-time it is covered with immense masses of little golden, honey-scented flowers; the bees fairly swarm over them. The fruit is oval, yellow, covered with scales. The Russian Olive is the best tree known for semi-arid regions, as it will stand the most heat and drouth. It makes an ideal low, dense windbreak or hedge. Sometimes called "the candle tree." Very hardy.
(*Elæagnus Angustifolia*)

STAGHORN SUMAC This is a typical Sumac, except that it forms a small tree, 20 to 30 feet tall. Its beauty has been overlooked by many planters. Fits in wherever a large shrub or small upright tree is desired. The rich, green fern-like foliage gives a tropical effect. The foliage turns a brilliant flaming red in the fall, very conspicuous and beautiful. After the foliage is gone, long clusters of small, round, crimson-red fruit, covered with velvety hairs, remain during the entire winter. Hardy; grows very fast. Prefers sunlight. (See page 33, under "Shrubs," for the low-growing form of Sumac.)
(*Rhus Typhina*)

SYCAMORE, EUROPEAN (Oriental Plane) A large, round-headed, wide-spreading tree, regularly formed, usually with a short, heavy trunk. A beautiful and majestic shade tree. Grows 80 feet tall. A very good street and avenue tree. Good for all soils, even at the sea-side. Succeeds where others fail. More shapely and better tree than the American Plane. Bright green, five-pointed leaves. Hardy.
(*Platanus Orientalis*)



A space 80 by 80 feet, with varieties planted as shown on above plan, will more than supply a large family with all the fruit they can use, beginning with strawberries early in the spring, followed by cherries, currants, gooseberries, raspberries, blackberries, early summer apples, apricots, peaches, plums, pears, grapes, fall and winter apples. Apples may be stored and, with canned fruit and preserves put up during the summer, will give an abundant supply of fruit the year 'round.

NOTE: The ground between the fruit trees can be used for the first few years for an additional planting of strawberries, blackberries, etc. These will begin bearing the second year, and produce a number of crops before they have to be taken out to make room for the fruit trees.

WHEN TO PLANT

Spring is the best time for planting in the northern half of the United States and in the arid Western States.

Fall planting has some advantages in other regions, but not sufficient to warrant postponement from spring to autumn. With low-growing shrubs and Roses, fall planting may be practiced satisfactorily farther north, if protection is provided during the winter by mounding the earth up over them and putting on a mulch. This should be raked off in the spring.

The Peony and Iris will reach full blooming strength sooner if planted in the fall. They should be mulched to prevent alternate freezing and thawing, which would heave the roots out of the ground. Fall and winter planting, without providing this protection, may be practiced successfully in Maryland, Delaware, the Virginias, Kentucky; southern parts of Ohio, Indiana, Missouri; all States to the south; eastern part of Oklahoma; Texas and the Pacific Slope, where there are winter rains.

ORNAMENTAL TREES

Dig the holes large enough to hold the roots without crowding. Cut off broken and injured roots and shorten any that are extra long. Set the tree two inches deeper than it stood in the nursery. Fill in the hole with loose rich dirt, pressing it firmly about the roots. If the ground is dry, pour in several gallons of water before the last four or five inches of dirt are thrown in. After the water soaks in, fill the hole completely with loose dirt. Do not press down the wet dirt about the roots.

Pruning Cut out the smaller branches. Shorten the larger ones to four or five good buds. Sometimes the buds near the base of the branch are small and undeveloped and may not grow. Care should therefore be taken to leave several large, plump buds on each branch. Do not shorten any branches after the tree starts to grow.

The second year, after the tree has made a good growth, the kind of pruning depends on the results desired. Some trees, not planted as shade or road trees, should be kept with low-branching heads. For instance, the Bechtel Flowering Crab is naturally low-growing and the central leaders should be cut out.

On the other hand, the Maple, Elm, and other shade trees should keep the central leaders. As the tree gets older, the lower side branches should be cut off, giving room to pass under them. If the central leader is injured, a side branch can be trained to take its place.

Shade trees, like other plants, respond to care and attention. Watering during a hot, dry summer, and cultivation will foster their growth. They will give you shade much sooner if they are not neglected.

SHRUBS

Spade the ground deep.

Make the holes, prune the roots, and set out as directed under "Ornamental Trees," except that shrubs should be set no deeper than they stood in the nursery.

Keep the weeds out. Water often if the season is hot and dry. A mulch of leaves or straw will help to keep the roots moist and cool. During the first winter they should have a heavy mulch of leaves or coarse manure.

Pruning At planting-time, cut the branches back one-half to two-thirds.

After the shrub is well established, cut out old, weakened canes and shorten those branches only that give the bush an unnatural appearance. It is often necessary also to remove branches on the inside—small weak shoots, which produce poor flowers and detract from the looks of the shrub.

Shrubs should not be sheared heavily. Hedges of Privet or Japan Quince are an exception.

Prune Hydrangeas and Altheas regularly each winter. They will then produce better flowers, as they blossom in late summer on new wood.

Deutzia, Spirea, Japan Quince, Philadelphus, and shrubs which flower on wood of the previous season's growth should not be pruned until June or July, after they are through blooming.

Planting This depends upon the purpose for which the shrub is used. As a general rule, the distance between shrubs in a mass should be one-third to one-half their height when grown. The distance varies with the size which the shrub will eventually attain.

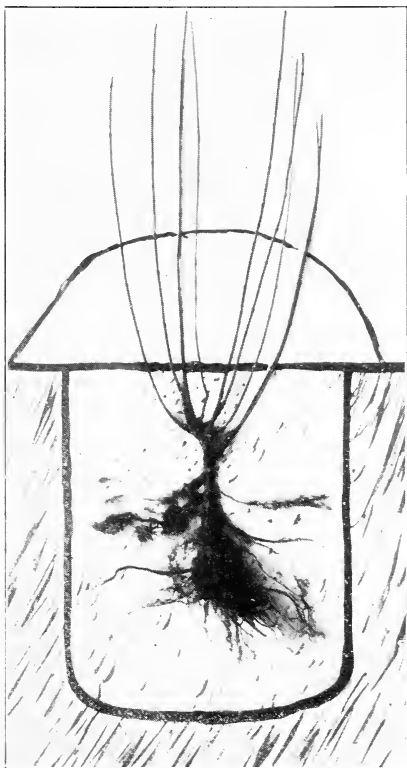
As a rule, shrubs should not be planted in the shade. However, Barberry, Deutzia, Japan Quince, Snowberry, Privet, and Weigela will thrive in shady places.

LILAC

Dig the holes large enough to hold the roots without crowding. Cut off broken or damaged roots. Set the plant five to seven inches deeper than it stood in the nursery, but do not fill in the last five inches until the plant has made a good growth.

The Lilac requires little pruning at any time. Remove broken or uneven branches at planting-time only. The bloom is borne on one-year-old shoots. Remove the withered flowers. Cut out weak branches entirely just after blooming—do not cut them back. Otherwise, prune for form only. Remove all suckers.

For a hedge, set the plants one and a half to two feet apart. For growing flowers for the market, three feet apart in the rows, four to six feet wide.



How to Plant Two-year Privet.

Set the plants several inches deeper than they stood in the nursery, with the lower part of the branches below the level of the ground. Mound the dirt up six or eight inches above the level of the ground, to prevent the tops drying out. Rake this off when the buds start to open.

HEDGES

There are two kinds of hedges—those with a dense, solid growth which may be kept sheared in a formal shape and make a good fence or barrier. They are cheaper and more attractive than iron or picket fences that require painting. The other kind of hedge is made with more open-growing shrubs. They are more graceful and attractive, but do not make as good a barrier.

Privet This plant is more frequently planted for hedge purposes than any other. There is a hardy variety suited to northern planting. Plants can be set nine inches to a foot apart in the row. Where a very dense hedge is desired, the plants can be set in a double row, each plant one foot and the rows also one foot apart.

In preparing the ground, dig a trench a foot or more deep and set the plants six to eight inches deeper in the ground than they were in the nursery. This will bring three or four of the lower branches below the surface, which, after the first year, will make roots of their own, giving a dense solid growth.

The Privet takes readily to shearing. By using the shears repeatedly throughout the summer, trimming the new shoots, while they are tender and soft, the hedge can be trained into any one of a number of formal shapes; this, however, requires a great deal of work and is now practiced less frequently. A hedge with a naturally rounded growth is more attractive in most situations.

Japan Quince can be grown in the same way and can be sheared with impunity. **Japanese Barberry** is a graceful-growing shrub, but should not be planted where a sheared hedge is desired, as it does not take readily to clipping. However, it forms a good low fence, as its numerous thorns will prevent children and dogs from running through it, although the thorns are not strong enough to tear clothing.

Very attractive boundary hedges can be made from *Spirea Van Houttei*, and *Crimson Rambler* and *Dorothy Perkins* Roses. The canes should be cut back within three or four feet of the ground, to prevent their trailing. The *Rugosa* and *Conrad F. Meyer* can also be used to very good advantage.

All of the tall-growing shrubs form very attractive hedges. These should be set a foot or one and a half feet apart, and low-growing ones, such as *Barberry*, one foot apart.

CLIMBING VINES

Boston Ivy Set the plants as deep as they stood in the nursery. Protect the top the first winter after planting, with a mulch of leaves or straw. When once established, it is very hardy. It will climb and cling to wood, brick, rock, etc., anything except an iron support, which gets hot during the summer.

Japanese Clematis Dig a hole that will take the roots without crowding. Set the crown an inch below the surface. *Clematis* should have a rigid support. If a string or wire is used, it allows the wind to blow the plant about, injuring it. Cut out all of the weak growth and during the winter prune the remainder heavily if you want the most bloom. *Clematis* thrives best when well fertilized and watered during dry weather.

Honeysuckle Hall's *Honeysuckle* will thrive on all soils and under nearly all conditions. Set the vines as deep as they stood in the nursery. Make the hole large enough to take the roots without crowding.

It is especially good for verandas, houses, pillars, etc., as the wire netting or lattice it needs to grow on may be loosened and laid flat on the ground while the woodwork is painted.

It is one of the few vines that thrive at the seashore and will bloom all summer except during the hot, dry weather.

It makes an attractive cover for a fence, where it should be set every six feet.

It can also be used to cover steep banks and unsightly places too shady for other plants. For this purpose, set the plants four feet apart each way. The vines will spread in all directions and take root, forming new plants, which make a solid, matted covering for the ground.

It will thrive in spite of neglect; but, to secure best results, the ground should be cultivated and given a dressing of manure during the winter, when the older, weaker vines should be cut out.

Wistaria Set the plant as deep as it stood in the nursery. Keep it hoed the first summer, but after that do not fertilize or attempt to force its growth. It takes several years to come into blooming, and even longer if the growth is forced. The vine should have a strong, permanent support, for it is long-lived and eventually becomes very heavy. It naturally produces rugged, twisted branches, which are very effective. Where it is desired to cover the entire surface of a building or arbor, it is necessary to fasten the leaders, keeping them taut, and to train some of the outside branches. After the vine reaches the blooming age, it may be made to produce enormous quantities of flowers by cutting back the new growth each year to spurs.

To cover a tree, plant either the *Wistaria* or the *Trumpet Vine* quite a distance from the trunk of the tree, and put several yards of the stem under ground.

Trumpet Vine Set the plants as deep as they stood in the nursery. They prefer very fertile soil. The ground should be fertilized every winter. Especially fine for covering rock walls and fences, to which it clings and climbs. Also used in covering buildings.

Climbing Roses These should be planted as described under "*Roses*." The only pruning necessary is to cut out the old, weakened canes.

PEONY

Peonies can be planted either in the fall or spring. They are vigorous, hardy, and thrive everywhere, except in the low altitudes of the Gulf States and southern California.

The ground should be spaded deep, two feet if practicable. Fertile soil is preferable, though not necessary for satisfactory results. Set the crown three inches below the surface of the ground. If planted in the fall, mulch with four or five inches of fine earth and leaves, straw, or coarse stable manure. It is advisable to give the ground immediately around the plant a dressing of manure every winter. The rough trash should be raked off in the spring.

Every seven or eight years it is advisable to dig them up and replant them. Cut the roots into two or more parts with a sharp knife. Each part should have three to five eyes. Reset in September or October as described above.

When planting in mass for color effect, set eighteen to thirty inches apart, depending on whether the variety is a strong grower. In growing for cut flowers, set two and one-half feet apart, in rows three and one-half to four feet wide. The tops die in the fall, and should be cut off. Some leave them until spring to mark their place, so that the roots will not be dug up by mistake or injured when the ground is worked over.



Peony.

Peonies make strong shoots. The buds can force through several inches of ground. The buds of the crown should be set at least three inches below the surface of the ground.

IRIS

The Iris is one of the most beautiful flowers, and can be grown anywhere on all kinds of soil. It will thrive in spite of neglect where other flowers fail, but gives best results on fertile, well-drained soil. The Iris can be planted either in the fall or spring. Strong plants set in the fall will give more bloom the first season than those set in the spring. Put the crown of the root about two inches below the surface, pressing the dirt firmly around it. Be careful not to get the roots too deep; otherwise they will rot. If planted in the fall, they should be well mulched the first winter with four or five inches of loose soil and leaves or coarse manure. This should be raked off in the spring. For planting along borders and in masses for immediate color effects they can be set eight to ten inches apart. If planted in rows, set eighteen inches apart in rows three feet wide.

When the clumps of Iris get large, they can be divided with a sharp spade, during their resting period late in August and transplanted. If reset promptly in fresh earth and watered, they will produce the usual bloom the following spring.



Phlox.

The new growth starts from buds at the crown. These buds must be set not more than one inch below the surface of the ground, as shown above.

PHLOX

Phlox are hardy and thrive everywhere. Spade the ground well and work it fine. Then dig a hole deep enough so the crown, or bud, will come one inch below the surface, and large enough so that the roots will not be crowded. Be careful not to get the buds at the base of the stalk too deep. The old stalk is dead, and the new top must be developed from these buds. Press the earth firmly about the roots. If the planting is done in the fall, mulch with five or six inches of loose earth and leaves. Rake this off in the spring. Blooms can be produced all summer by cutting off the tips of some of the shoots as soon as the buds start to form. These shoots will put out side branches, which provide a later bloom. Plant twelve to thirty inches apart.

The tops die to the ground each winter and should be cut off. Some gardeners leave the dead tops until spring, so that the roots will not be dug up by mistake or injured when the ground is worked over. The roots can be divided as soon as the new sprouts appear above the ground in the spring. This will not prevent their blooming. They should be lifted and re-set in fresh earth every four or five years to give best results. If there is any trouble with mildew, they should be divided and transplanted every third year. Mildew is seldom troublesome; but, where this is the case, spray thoroughly with Bordeaux mixture early in the spring.

ROSES

Roses should have a warm, sunny location. They can be made to grow on any soil, preferably a deep, well-drained, fertile loam. A few bushes of suitable varieties, set out like any other shrub, will thrive almost anywhere with the care usually given to shrubs and other plants. Nothing will respond to care and fertilizing as does the Rose, and in order to get the largest, most perfect bloom throughout the entire season, special planting and attention is necessary.

When to Plant Roses can be planted either in the fall or spring. (See the general paragraph on "When to Plant," page 14.) Early planting is best.

Roses are handled according to the type of Rose you plant and the results you require. Conrad F. Meyer and Rosa Rugosa may be used as shrubs, in which case they are treated as other shrubs. The climbing Roses are treated very much as other climbing vines. These climbing varieties may also be planted in rows and cut back to form a hedge.

When grown for cut flowers, they should be planted in beds and cultivated as any other crop. There are two classes of Roses for planting in beds: the bedding Roses, such as Annie Muller and Gruss an Teplitz, which produce a profusion of medium or small-sized blooms that are most attractive on the bush and are grown as an ornament in the yard; the other varieties, such as Snow Queen, Maman Cochet, and Wm. R. Smith, are grown for their attractive individual bloom and used as cut flowers.

For planting in beds, the following directions are especially worth while. They will give you results that you never dreamed possible. Follow these methods as far as you can.

Soil Preferably a deep, well-drained, fertile loam. Stiff clay can be improved with several loads of sifted coal ashes or sand. To get best results, a great deal of compost or well-rotted manure should be mixed in with the dirt. You can not make the soil too rich, but no newly planted Rose should have its roots within striking distance of even old or well-rotted manure.

For two rows of bushes the beds should be three feet wide, and for three rows four and one-half feet wide, and as long as desired. Bushes should be set one and one-half or two feet apart in the bed, depending upon whether they are large growers, like Maman Cochet and Snow Queen, or small, bushy growers, like Annie Muller.

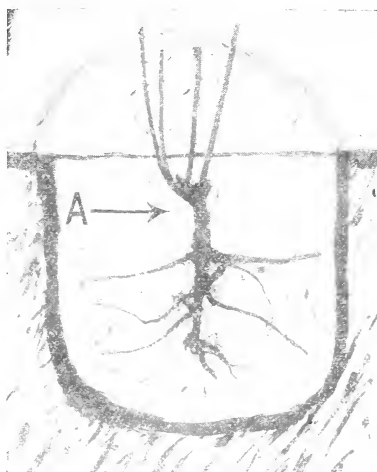
When the soil is naturally fertile, spading the ground thoroughly will give good results.

When the soil is not naturally fertile, prepare the bed the spring before by spading in well-rotted manure and leaf mold. If the soil is stiff clay, add sand or sifted ashes. A large quantity of manure may be used, providing it is mixed in some months ahead and well rotted before the plants are set.

Those who make a specialty of Roses prepare beds as follows: Lay out the bed the size desired. Throw out all the dirt to a depth of two or two and a half feet, and put in six inches of small, crushed stone. If located near large trees, a border of boards or permanent concrete should be placed around the edge, to prevent the tree roots from taking the fertility needed for the Roses. The bed should be filled in with a mixture of one-third or more fertile top soil from the garden, one-third of the clay subsoil, and one-third of well-rotted manure. They should be well mixed before they are put in the pit. This mixture should be mounded up some inches above the surface of the ground to allow for settling. If there is not time to allow the ground to settle, it should be thoroughly tramped down as it is put in.

Planting The manner of setting Roses depends on how they are propagated. There are two methods: First, by growing from cuttings and green wood tips, which gives a plant on its own roots. Second, by budding on Manetti or other hardy stocks. This method gives strong plants and is necessary for many of the less vigorous varieties. The budded Rose requires particular care in pruning; otherwise, the briar stock will put out suckers below the bud and finally crowd it out. The bud is less vigorous at the start, and sometimes the suckers are allowed to remain by those who fail to distinguish one from the other. But the suckers from the briar stock are easily recognized, as the foliage is different, usually having seven leaflets instead of five, and the cane is nearly covered with thorns. Furthermore, the sucker comes up from the root below the surface of the ground, usually several inches from the main stem.

Budded Roses should be set so that the point where the bud was inserted in the briar stock is two inches below the surface of the ground. Roses-on-their-own-roots should be set as deep as they stood in the nursery. Dig the hole eighteen inches deep; cut off broken or injured roots; hold the plant in position; spread out the roots so they do not cross or crowd one another at any point; fill in the holes carefully with the fertile top soil, pressing it firmly in about the roots. A small handful of finely ground bone meal sprinkled in is very helpful. After the hole has been filled and dirt pressed firmly, cut back the top canes one half to two-thirds, and then mound loose dirt up about them for six to ten inches. This mound of dirt should be placed about the canes whether the plants are set in the fall or spring—otherwise, they are apt to dry out. If the Roses are planted in the fall, this mound should be covered with a thick mulch of straw or leaves. As



Rose.

Cover the tops of newly-planted Rose bushes with a mound of loose dirt 6 to 12 inches tall. This prevents the tops from drying out and dying before they can start growth. As soon as the buds start to grow, rake this mound off. When planting budded Roses, the point where the bud was inserted in the stock (as shown by "A") should be set several inches below the surface of the ground.

soon as the buds start to grow, rake away the mound and cut back the canes, leaving two to four buds to each cane. Make this cut just above a sound outside bud, so that the new canes will grow outward and make a shapely bush.

Cultivation Just before the growth starts in the spring, spade in well-rotted manure or fertilizer. Avoid deep cultivation, which is apt to break the roots; three inches is sufficient. The ground should be kept well cultivated during the summer. When it is hot and dry, pour on enough water so as to wet the soil deep. The best time to water Roses is early in the morning, before the temperature rises. Cultivate as soon as the ground is dry enough. Careful cultivation will retain the moisture for a week or more. Never wet the foliage late in the day otherwise mildew will develop. A mulch of peat moss three or four inches deep will make the bed cooler and prevent the roots from drying out.

To stimulate rapid growth, frequent wettings with weak manure-water are excellent. This is made by soaking a bushel of old rotted manure from the cow barn or pig sty in a barrel of water.

Roses are well established after the first season, and should be pruned each spring according to their needs; *i. e.*, remove any old or weak canes and shorten back the others a half to four-fifths before growth starts in the spring.

The different varieties of Roses require different pruning, as their habits of growth vary. The following should be pruned lightly: Annie Muller, Maman Cochet, and Wm. R. Smith. The Snow Queen should be pruned moderately. The following should be pruned hard, cutting back the canes to about six buds: General Jacqueminot, Marshall P. Wilder, and Paul Neyron. The following should not be pruned except to remove old, weak canes: Conrad F. Meyer, Dorothy Perkins, Rosa Rugosa, Crimson Rambler, Climbing American Beauty, and Gruss an Teplitz.

Remove the flowers as soon as the petals begin to drop. Do not allow seed-pods to form, except on the Rosa Rugosa, whose pods are quite attractive.



Roses Make Very Attractive Hedges. (See Page 16.)

This table of shrubs with their principal characteristics makes it easier to compare one with another. It should also be helpful in planning original shrubbery masses. Detailed descriptions are given on other pages.

Common Names of Shrubs	Blooming Period	Color and Size of Bloom	Height and Form of Bush	Comments
Althea (Hibiscus Syriacus) (Totus Alba)	July-September	White, bell-shaped, 3 inches across.	8 to 12 feet. Upright, branching.	Very hardy, succeeds everywhere.
Barberry, Japanese (Berberis Thunbergii)	May	Small flowers, red berries.	3 to 3½ feet. Dense bushy.	Best low hedge. Red berries all winter. Attracts birds.
Deutzia Lemoini	June-July	White clusters, small flowers.	3 to 4 feet. Dense, spreading, upright.	Successful everywhere, in sun or shade.
Deutzia, Pride of Rochester (Deutzia Crenata)	May-June	White-pink, large flowers.	6 to 8 feet. Upright, branching.	Handsome grower in sun or shade.
Dogwood, Siberian Red Osier (Cornus Alba Siberica)	Autumn berries	Blood-red bark, blue berries.	6 to 10 feet. Bushy, upright.	Successful under large trees or in damp places. Attracts birds.
Golden Bell (Forsythia Suspensa)	April-May	Yellow, bell-shaped, 1 inch long.	6 to 8 feet. Drooping.	Earliest blooming shrub, succeeds everywhere.
High Bush Cranberry (Viburnum Opulus)	May-June	Snowball-like flowers, red berries.	8 to 12 feet. Upright, spreading.	Valued chiefly for bright red berries that attract the birds.
Honeysuckle, Japan Bush (Lonicera Morrowii)	May-June	White flowers, brilliant red berries.	5 to 6 feet. Dense, spreading.	Successful in sun or shade.
Hydrangea, Hills of Snow (Aborensis Sterilis)	June-July	White, huge balls of flowers.	4 to 10 feet. Upright, spreading.	Earliest blooming hydrangea.
Hydrangea, Large-flowered (H. Pan. Grandiflora)	August-September	White-pink heads, 1 foot long.	8 to 10 feet. Dense, rounding.	Prefers sun. Most conspicuous in fall.
Japan Quince (Cydonia Japonica)	April-May	Scarlet flowers, green fruit.	5 to 6 feet. Dense, spreading.	Prefers sun. Protective hedge.
Japanese Rose, Globe-Flower (Keria Japonica)	May-August	Yellow, resembling single rose.	4 to 8 feet. Slender, drooping branches.	Thrives in sun, but even better in shade.
Prairie Rose (Rosa Setigera)	July-August	Wild red briar rose.	6 feet. Large, dense, spreading.	Exceptionally hardy; adapted to North and South.
Rosa Rugosa	May	White, semi-double rose.	4 to 5 feet. Heavy, dense, spreading.	Use as any other shrub; Fruit attracts birds.
Snowball (Viburnum Opulus Sterile)	May-June	White balls, many flowerets.	6 to 9 feet. Upright, tree form.	Popular and successful everywhere. Favorite.
Snowberry (Symphoricarpos Racemosus)	May-July	Small pink flowers, white berries.	4 to 5 feet. Spreading.	Attractive for snow-white berries. Succeeds everywhere.
Spiraea, Van Houttei (Rhus Glabra)	May-June	White, small flowerets in rosettes.	4 to 6 feet. Arching branches.	Best shrub. Thrives everywhere.
Sumac, Sweet Shrub (Rhus Aromatica)	June-July	Clusters of red berries.	10 to 15 feet. Upright.	Effective fern-like foliage. Thrives on sunny, rocky banks. Attracts birds.
Sweet Shrub (Calycanthus Floridus)	June-August	Small dark red flowers.	3 to 6 feet. Upright.	Flourishes everywhere, even on dry, rocky embankments. Attracts birds. Has peculiar, sweet odor.
Syringa, or Mock Orange (Philadelphus Coronarius)	May-June	White, resembling orange blossoms.	7 to 10 feet. Upright.	Most fragrant summer-flowering white shrub.
Weigelia Rosea (D. Florida)	May-June	Pink, large, trumpet-like.	6 feet. Spreading, upright.	Successful in sun or under trees.

Planting the Home Grounds

By Frank A. Waugh, Landscape Gardener

Frank A. Waugh is Professor of Horticulture at Massachusetts Agricultural College, Amherst. He is the author of "Landscape Gardening" and other excellent books, which are valued not only for reliable information, but also for the direct, concise, simple presentation. We were indeed fortunate in securing his plans and presentation of this unit collection idea.

William P. Stark.

"The three accompanying plans are designed to represent typical cases. They present the usual forms of home grounds. The first one shows the average size and form of city lot, the second an example of a suburban place, and the third a representative farm yard. In each case the plan indicates how the grounds may be planted to secure the best effect, having in view economy of first cost and the lowest possible cost of upkeep.

The novel feature of these plans, and the one which should prove of practical service to the home-owner, is the arrangement of unit collections of trees, shrubs, and other plants for carrying out the designs. This scheme has certain manifest advantages.

1. It gives an intelligible design. They are to the home-builder what patterns are to the dress-maker.

2. The nurseryman can keep these standard collections in stock and can sell them at lower prices than usually charged, thus effecting a substantial economy for the buyer.

3. The buyer can substitute certain units for others, or make other changes according to his own taste or discretion.

4. The home-builder can buy a portion of the necessary plants from year to year, thus distributing the outlay over several years.

It need not be expected that these plans will exactly fit every place. On the contrary, modifications of greater or less degree will be required in adjusting these patterns to a majority of places. Such changes should be freely made according to the taste of the home-owner, but, in order that the final result may be as successful as possible, it is highly important to make such alterations in harmony with the principles of design which have controlled in the original plans. Some of the most important of these principles should be stated here and carefully considered by everyone who undertakes this sort of work."

"1. Have a definite design or plan for the entire place. Follow this plan just as you would follow the architect's plan for the house.

2. Plant in masses or continuous borders. Single detached specimens should be seldom used; stiff, round bunches or "clumps" never.

3. Make these border plantings along the boundaries of the home lot.

4. Or else form continuous screens where privacy is desired or where unpleasant views are to be covered.

5. Also plant continuous or nearly continuous borders along the foundations of the dwelling-house and attached buildings.

6. Heavier masses may be planted at the outer angles of the home lot.

7. Leave the centers open. Never plant trees, shrubs, or flower-beds in the center spaces of the lawn.

8. Make these open lawn spaces as large as possible. Placing the house at one side of the lot will help in this.

9. Place the largest trees to the south and west of the house, so as to have shade from noon till night.

10. Divide up the space so as to serve all purposes to advantage. A fully equipped house lot should have three parts, viz.: (a) a small, neat front yard; (b) a service yard for hanging out the wash, handling the poultry, or any other necessary work; (c) a good large family yard, or lawn, with some privacy, where the family can read, visit, play croquet, or indulge in any other domestic recreations.

11. Plant native, hardy trees, shrubs and flowers by preference. Avoid showy freaks and all unnatural-looking specimens. Also avoid all showy ornaments, such as white-washed stones, flower-beds edged with soda-pop bottles, iron dogs, deer, etc.

12. Place flower-beds in the back yard rather than in the front yard.

13. Use few varieties of trees and shrubs, and a considerable number of each variety. The collections offered in this book necessarily include several different kinds, and represent the extreme limit to which it is desirable to go in the selection of varied materials for a small place.

14. Plant a few things every year. No place will go on forever without additions and repairs.

15. Give proper care. Trees, shrubs, flowers, and lawn grass will not thrive under neglect any more than corn or potatoes.

The owner of a farm or home who proposes to improve his home grounds by the aid of Mr. Stark's nursery service should bear ever in mind one other important fact, that these are merely ready-made designs. There is so much individuality in gardens that the best results can be achieved only when each plan is individually designed. Some people can well afford to employ competent landscape gardeners. The writer and the publisher of this book join in urging this course on everyone who aspires to the very best results. Capable landscape gardeners will be cheerfully recommended to those who ask for such information.

But there will always be fifty or a hundred home-gardens to every one personally designed by the professional landscape architect. Home-made gardens have their proper and important place in the world; and the service of this book is cordially tendered to those people who use both."

These unit collections are described by Prof. Waugh and are used in the various plans.

Collection "A"

Trees for ordinary village streets. Plant 15 to 30 feet apart.

5 Silver Maple

Collection "B"

Street trees for immediate effect. Plant 20 to 30 feet apart. These may be alternated with Elms or other permanent trees and removed in 6 to 10 years.

5 Carolina Poplar

Collection "D"

Trees for narrow or smoky streets. Plant 12 to 30 feet apart

5 Horse Chestnut

Collection "E"

Hardy, deciduous trees for shade and general ornamental effect.

2 Silver Maple

2 American Elm

1 Green Ash

2 Carolina Poplar

Collection "F"

This Barberry is especially suited for a hedge. It is very hardy, low-growing, with attractive foliage and red berries, which hang on well into the winter. It has thorns which are sharp enough to prevent children and dogs from tramping it down, but not strong enough to tear the clothing. Set plants about 1 foot apart.

75 Japanese Barberry

Collection "H"

Medium-height, fine shrubs for the smaller places.

3 Spirea Van Houttei

5 Deutzia Lemoini

2 Snowball

5 Weigela Rosea

Collection "I"

Hardy shrubbery for border planting, screens, etc. Plant them in continuous borders, not in separate beds, but all plants of the same kind together. Plant about 2 feet apart each way, irregularly, not in rows.

5 Rosa Rugosa

5 Spirea Van Houttei

5 Snowball

10 Japanese Quince

5 Syringa

5 Weigela Rosea

10 Snowberry

Collection "J"

Hardy shrubbery for use interchangeably with Collection "I" or in addition to it where desired on larger places. Plant in the same manner.

5 Old-fashioned Lilacs, 5 Hydrangea Pan

5 Deutzia, Pride of

Grandiflora

Rochester

5 High Bush Cranberry

10 Deutzia Lemoini

10 Snowball

5 Prairie Rose

Collection "K"

Hardy, native shrubs for naturalistic effects, masses, borders, and screens. Selected also for fine autumn colors.

5 Staghorn Sumach

5 Common Sumach

(Rhus Typhina)

(Rhus Glabra)

5 Common Sumach

5 Dogwood (Cornus Alba

(Rhus Aromatica)

or Siberica)

Collection "L"

Large-growing, hardy shrubs for heavy screens, hiding out-buildings and big masses generally.

5 Spirea Van Houttei

5 Honeysuckle Japan Bush

5 Syringa

5 Prairie Rose

Collection "M"

Fine, delicate, but hardy shrubs for planting along the foundations of the house, near porches, and where they will be seen at closest range.

5 Spirea Van Houttei

10 Deutzia Lemoini

5 Japanese Rose, Globe Flower

Collection "N"

Lilac should be planted in groups in corners of the back yard or similar places. These budded varieties are as far superior to the common Lilac as grafted Apples are to wild Apples.

2 Ludwig Spath

2 President Grévy

(reddish purple)

(blue)

2 Madame Abel Chatenay (white)

Collection "O"

These extra hardy Roses are especially recommended for planting in the northern United States.

2 Paul Neyron (pink)

2 General Jacqueminot

2 Marshall P. Wilder

(crimson)

(red)

2 Conrad F. Meyer

2 Snow Queen (pure

snow white)

(silvery pink)

Collection "P"

These are the best everblooming Tea and Hybrid Tea Roses. They are only moderately hardy, and, when planted north of Philadelphia and St. Louis, should be given protection in winter by wrapping with newspapers and pulling the dirt up around the base.

3 Maman Cochet (pink)

4 Wm. R. Smith (creamy

3 White Cochet (white)

pink)

Collection "R"

Showy climbers for front or side porches and other prominent situations.

2 Dorothy Perkins

2 Honeysuckle

Collection "S"

Climbers for large mixed planting, especially where large screens are to be developed.

2 Honeysuckle

2 Crimson Rambler Rose

2 Clematis Japanese

2 Trumpet Vine

Collection "T"

Hardy perennial old-fashioned plants for the flower garden. Plant in rich soil and fertilize annually.

3 Peonies, assorted

6 Phlox, assorted

6 Iris, assorted

Collection "U"

Twenty assorted Phlox for use in front of the larger shrubbery masses, as a border along the walk, or in the flower garden.

20 Phlox, assorted

Collection "V"

Peonies for the flower garden, in groups beside the porch, in angles of the house, beside the garden gate, or similar places.

3 Festiva Maxima

3 Jeanne d'Arc

Collection "W"

Hardy Iris for any position where fine flowers are desired.

15 Iris, assorted

Collection "X"

Fine ornamental fruit trees for the lawn.

4 Crab Apple, Hyslop or Exeelsior

HOW TO MAKE YOUR OWN PLAN.

Spend enough time on your plan to make it complete. Then in later seasons, when you add more shrubs, roses, etc., they will harmonize with your first planting.

Perhaps you do not care to do all your planting at one time. In any case, you will avoid the evils of the "hit-and-miss" method, and secure the best results, if you first lay out a definite, **complete** plan.

You know the dimensions of your grounds, or can easily measure them. Each square in the cross-section sheet represents one foot. (You can let each square represent two feet or more, according to the size of your place.)*

Locate the house in the proper place, drawing to scale.

Draw in other buildings, walks, trees, and other permanent objects.

Determine what part of the grounds should be kept open.

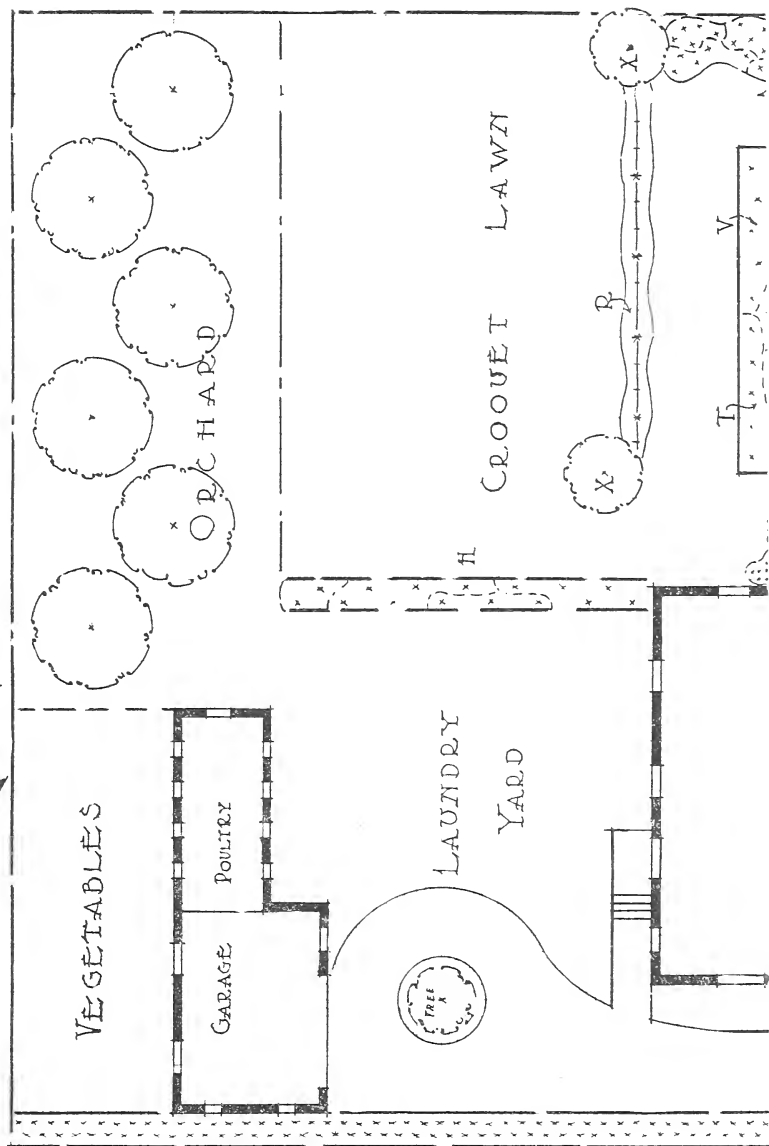
If you have an attractive view from a window, do not obstruct the outlook by your planting.

Mark the location for the planting of trees, shrubs, etc., according to the principles explained in this book and illustrated on the blue prints. Locate the collections to meet your particular taste and requirements.

The result will be comparable with the effect secured by an expert, and your satisfaction will be the greater because you have done it yourself.

*NOTE: Use a pencil then you can erase if necessary.

0 5 10 20 30 40 50 60 70 80 90 100



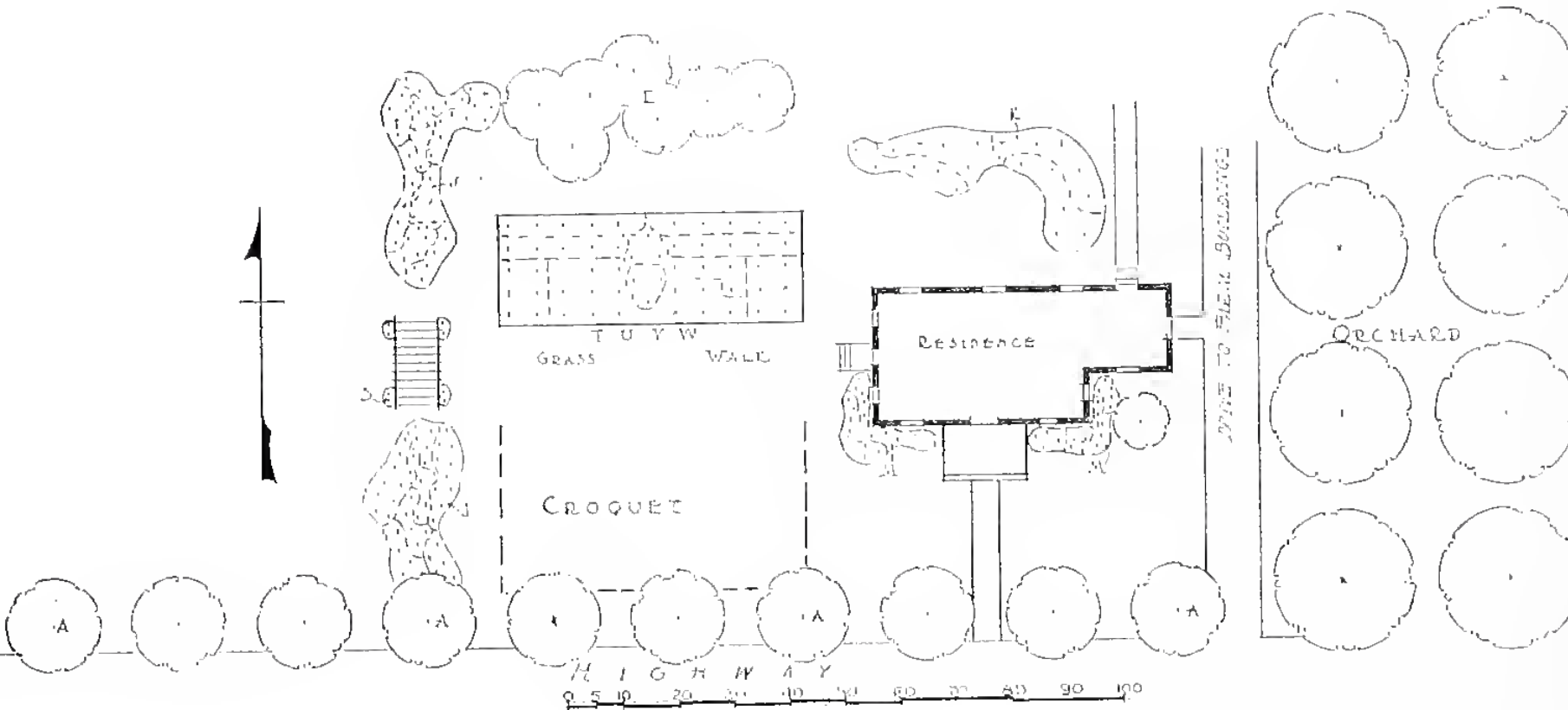
COUNTRY RESIDENCE.

The more open surroundings make it unnecessary to plant the margins as closely as on a small lot. Note how collection (K) is placed to cut off the view of the barn and buildings in the rear.

The shrubbery is planted in larger masses in keeping with the wide, open spaces.

The Silver Maple along the main highway at "A" may be planted with the slower growing Sugar Maples in between. The former can be cut out as soon as the Sugar Maples reach the desired size.

Where the soil and other conditions will permit, the home orchard should be located near the house. This will insure better care and greater convenience.



Collection "A"

Trees for ordinary village streets. Plant 15 to 30 feet apart.

5 Silver Maple

Note: Two of these units are used in this plan.

Collection "E"

Hardy deciduous trees for shade and general ornamental effect.

2 Silver Maple 2 American Elm
1 Green Ash 2 Carolina Poplar

Collection "J"

Hardy shrubbery for use interchangingly with Collection "I" or in addition to it where desired on larger places.

Plant in continuous borders, not in separate beds, but put all the plants of each kind together. Plant about 2 feet apart each way, irregularly, not in rows.

5 Old-fashioned Lilacs 5 Hydrangea
5 Dentzia, Prude of Pan, Crataegora,
Racletier 5 High Bush Cran-
berry
10 Dentzia Lemnini
5 Prairie Rose 10 Snowball (Viburnum
(Rosa Setigera) um Opulus Sterile)

Note: Two of these units are used in this plan.

Collection "K"

Hardy native shrubs for naturalistic effects, masses, borders, and screens. Selected also for fine autumn colors.

5 Staghorn Sumach 5 Common Sumach
(Rhus Typhina) (Rhus Glabra)
5 Common Sumach 5 Dogwood (Cornus
(Rhus Amom- Alnus or Siber-
ica) ica)

Collection "M"

Fine, delicate, but hardy shrubs for planting along the foundations of the house, near porches, and where seen at closest range.

5 Spirea Van Houttei 10 Dentzia Lemnini
5 Japanese Rose,
Globe Flower

Note: Two of these units are used in this plan.

Collection "S"

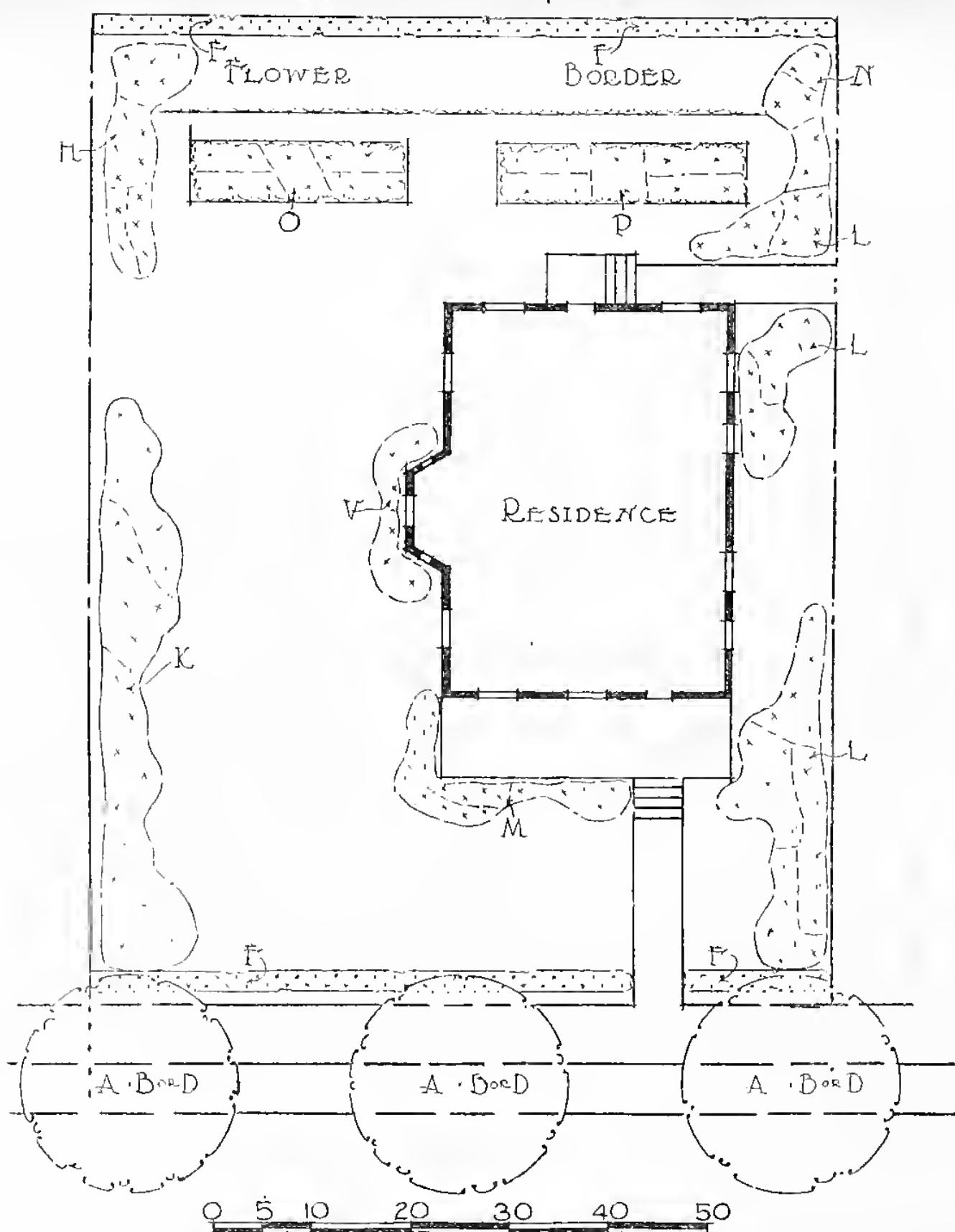
Climbers for large mixed planting, especially where large screens are to be developed.

2 Honeysuckle 2 Trumpet Vine
2 Clematis, Japanese 2 Crimson Rambler
Rose

Collection "T"

Hardy perennial old-fashioned plants for the flower garden. Plant in rich soil and give some fertilizer annually.

3 Pennies, assorted 6 Phlox, assorted
6 Iris, assorted



CITY RESIDENCE PLAN.

This is a typical small lot, 75 feet by 100 feet. Every square foot must be used to the best advantage. When the house is placed on one side, it gives the largest possible space.

Note that the shrubbery masses are set close to the outer boundaries to make the grounds appear larger and more extensive. At the top of the plan, the hedge of Barberry (F) takes the place of a fence. Just below it in the "flower border," Peonies, Phlox, or Iris can be planted, or such annuals as Nasturtiums or small vegetables.

This plan should also be used for a small lot in a town or village, using a somewhat different variety of trees.

Collection "A"

Trees for ordinary village streets. Plant 15 to 30 feet apart.

5 Silver Maple

Collection "B"

Street trees for immediate effect. Plant 20 to 30 feet apart. These may be alternated with Elms or other permanent trees and removed in 6 to 10 years.

5 Carolina Poplar

Collection "D"

Trees for narrow or smoky city streets. Plant 12 to 30 feet apart.

5 Horse Chestnut

Note: Only one of these three collections to be used in this plan.

Collection "F"

This Barberry is especially suited for a hedge. It is very hardy, low-growing, with attractive foliage and red berries, which hang on well into the winter. It has thorns which are sharp enough to prevent children and dogs from trampling it down, but not strong enough to tear the clothing. Set plants about 1 foot apart.

75 Japanese Barberry

Note: Two units are used.

Collection "B"

Medium-height, fine shrubs for the smaller places.

3 Spirea Van Houttei

2 Snowball

5 Deutzia Lemoni

5 Weigela Rosen

Collection "K"

Hardy, native shrubs for naturalistic effects, masses, borders, and screens. Selected also for fine autumn colors.

5 Staghorn Sumach

(Rhus Typhina)

5 Common Sumach

(Rhus Aromatica)

5 Common Sumach

(Rhus Glabra)

5 Dogwood (Cornus Alba or Siberica)

Collection "L"

Large-growing, hardy shrubs for heavy screens, hiding out-buildings, and big masses generally.

5 Spirea Van Houttei

5 Spiraea, or Mock

Orange

5 Honey-suckle, Japan

Bomb

5 Prairie Rose (Rosa

2-tigera)

Note: Two of these units are used in this plan.

Collection "M"

Fine, delicate, but hardy shrubs for planting along the foundations of the house, near porches, and where they will be seen at closest range.

5 Spirea Van Houttei

5 Japan Rose

10 Deutzia Lemoni

Collection "N"

Lilacs should be planted in groups in corners of

the back yard in similar places. These budded varieties are as far superior to the common Lilacs as grafted Apples are to wild Apples.

2 Lindley Spathe

(reddish purple)

2 Madame Abel Chatenay

(white)

2 President Grey

(blue)

Collection "O"

These extra hardy Roses are especially recommended for planting in the northern United States.

2 Paul Neyron (pink)

2 General Jacqueminot

(crimson)

2 Marshall P. Wilder

(red)

2 Conrad E. Meyer

(silvery pink)

2 Snow Queen (pure

white)

Collection "P"

These are the best everblooming Tea and Hybrid Tea Roses. They are only moderately hardy, and, when planted north of Philadelphia and St. Louis, should be given protection in winter by wrapping with newspaper and pulling the dirt up around the base.

3 Mamie Cochet (pink)

3 Wm. R. Smith (cream)

3 White Cochet (white)

pink)

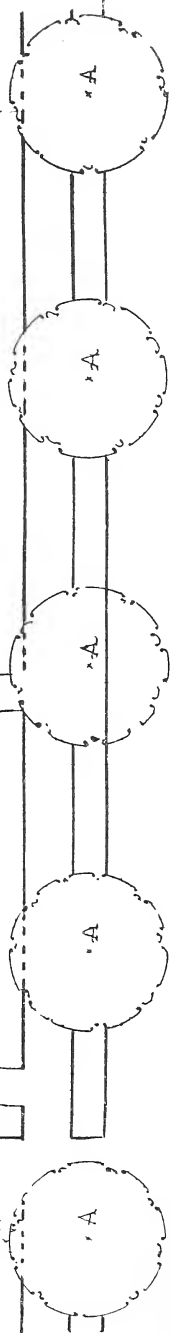
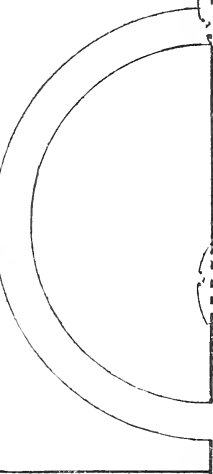
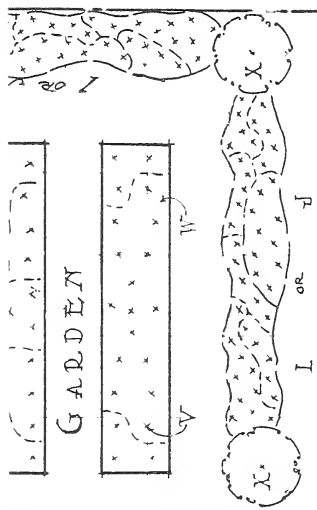
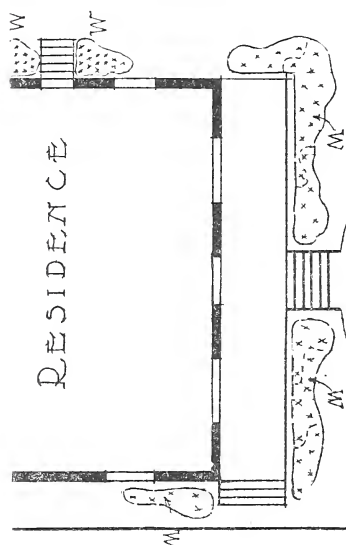
Collection "V"

Peonies to be used in the flower garden, to groups beside the porch, in angles of the house beside the garden gate, or in similar places.

3 Festiva Maxima

3 Jeanne d'Arc

DRIVE





SHRUBS

Shrubs are the most important ornamentals. They are valued and appreciated more and more, as indicated by a thousand sold now to one a generation ago. They have the greatest range of color and bloom, and occupy the most important space in the garden—and they give the quickest results. They are especially valued where there is only room for a few trees. The tall shrubs planted as a boundary make an effectual screen, and even on the larger estates an undergrowth of shrubbery is usually planted under the trees along the boundary. Many fine old places have an excellent growth of trees, but lack a proper planting of shrubs. Shrubs are the natural complement of trees, filling in the gap between their branches and the ground, and it is possible to get homelike results from shrubs that it would take years to acquire with trees alone. Anyone who has walked through woods from which all the natural undergrowth has been cleared away by an over-tidy owner, realizes that they have lost half their charm.

Trees can not be planted close to a house without robbing it of light and air, but tall shrubs, as a background for lower ones grouped around them, take off the sharpness of the corners, and let the sunshine stream in at the windows. Banked in front of foundation walls, they relieve the harshness of the line where house and land meet. The home nestles cosily in a nest of green, instead of springing suddenly from the lawn like a Jack-in-a-box.

It is cheaper to use shrubs to hide a steep bank or a deep cavity than it is to grade them. Many a house set on a narrow ridge of hill-top would appear to be less in danger of falling over the edge if the slopes around it were broadened by shrubs.

ALTHEA, or ROSE OF SHARON

(*Hibiscus Syriacus*)
(*Totus Alba*)

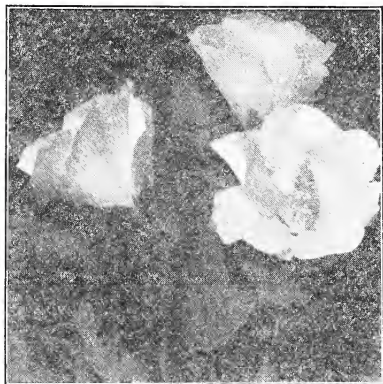
A large single bell-shaped white flower, somewhat resembling the Hollyhock, blooming the latter part of the summer, when most other flowers are gone.

Blooms from July to September.

Flowers are white, three inches in diameter.

Bush, upright, eight to twelve feet tall.

Use: one of the most satisfactory large shrubs for planting singly, in clumps, in masses, or as a hedge; hardy, succeeds everywhere. Planting Distance, three feet. Prune in winter for profusion of bloom. Do not allow the plant to run up, leaving base bare.

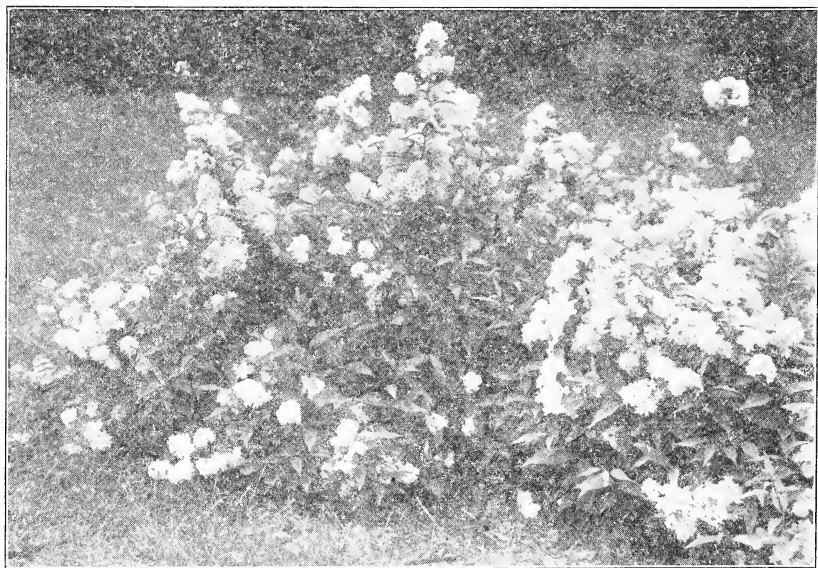


Althea.

BARBERRY An excellent shrub for mass planting and hedges. See page 38.

DEUTZIA LEMOINI One of the best medium-sized shrubs for planting singly or in masses; a very profuse bloomer.

Blooms June-July. Flowers: branches are loaded with clusters of small white bell-shaped flowers. Bush, three to four feet tall, dense, spreading. Use: very effective small shrub for planting singly or around the borders of shrubbery masses. One of the hardiest, thrives everywhere. Planting Distance, two feet. Prune in the spring, cutting out old, weakened canes.



Deutzia Lemoinei. One of the best low shrubs.

DEUTZIA, PRIDE OF ROCHESTER (*Deutzia Crenata*)

This beautiful shrub is taller, more upright growing than the *Deutzia Lemoini*, and may be used as a background or in the center of shrubbery masses. The foliage is particularly bright and clean, and the great profusion of flowers makes it one of the most satisfactory shrubs.

Blooms in the early spring, May or June, about two weeks ahead of *Deutzia Lemoini*. Flowers, white, slightly tinted with pink, borne singly and in clusters. **Bush**, six to eight feet tall, upright. **Used** for hedges, shrubbery masses, and a background. Succeeds equally well in the shade and the sunlight. **Planting Distance**, two feet apart. **Prune** in summer, just after they are through blooming. Trim the bush as required and cut out all old, weakened canes.



Deutzia, Pride of Rochester.

DOGWOOD (Siberian Red Osier) (*Cornus Alba Siberica*)

Its bright red color is especially desirable for autumn and winter effects. Do not confuse this with the common Dogwood, described on page 11.

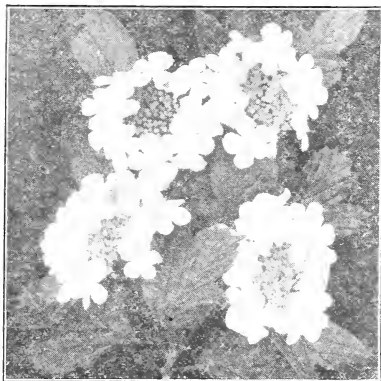
Bloom, small and insignificant. It is valuable for its attractive smooth red bark and many clusters of small blue berries. **Foliage** takes on brilliant colors in the autumn. **Bush**, ten feet tall, straight, upright growth. **Use** as a background for smaller-growing shrubs and single specimens. Succeeds equally well in shady and sunny places. Extremely hardy. **Planting Distance**, two and a half to three feet apart. **Prune** lightly in the winter or spring, when the plants are dormant. Cut out all old, weakened canes.

GOLDEN BELL The earliest-blooming shrub, April-May. Flowers appear before the leaves and the canes are long wreaths of bright yellow bloom. Flowers, bright yellow, bell-shaped, about an inch long. **Bush**, six to eight feet tall, spreading and curving over until the tips touch the ground. **Use**: exceptionally good for planting on the outer margin of shrub groups. It can also be trained over arbors, fences, and porches like a low-growing vine. Hardy, thrives in nearly all soils. **Foliage**, bright, clean, and untroubled by insects. **Planting Distance**, about two feet. **Pruning**: remove any dead or weakened growth in the spring, after it is through blooming.

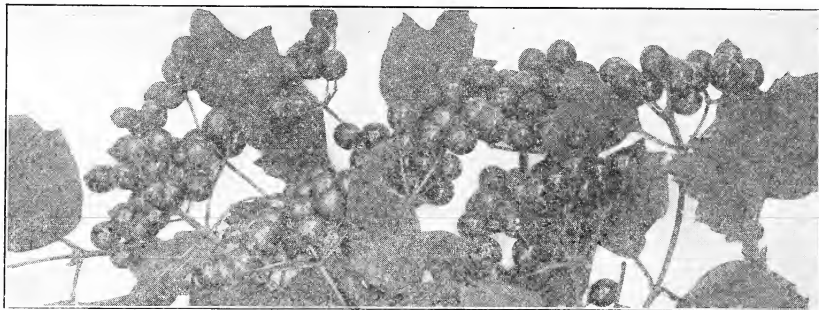
HIGH BUSH CRANBERRY A large (*Viburnum Opulus*) bush, re-

sembling the common Snowball in foliage and somewhat in flower, but the flowers are fertile and develop beautiful clusters of red and gold waxen berries. These form in midsummer and hang on into the winter. Attractive red foliage lasts until late in the autumn. This fast-growing bush gives quick results.

Blooms May-June. The many small white flowers form a ball-like cluster, three to four inches in diameter. **Bush**, eight to twelve feet high, spreading, upright, fast-growing. **Use**: the center of shrubbery masses, as a hedge plant and background for smaller-growing shrubs. Very hardy. **Planting Distance**, two and a half to three feet apart. **Prune** in sum-

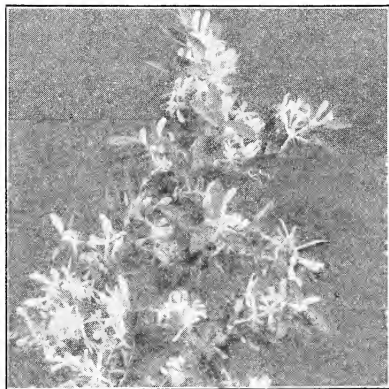


High Bush Cranberry Bloom.



High Bush Cranberry. The berries are even more beautiful than the flowers, brilliant, waxy, red and yellow.

mer, [just after they are through blooming,] cutting out old, weak canes, shortening back those that are too long.



Honeysuckle, Bush (*Lonicera Morrowii*).

HONEYSUCKLE, JAPAN BUSH (*Lonicera Morrowii*)

This beautiful shrub has dense green foliage, and a profusion of flowers, followed by shining red berries, which hang on until winter. It is one of the best "all-season" shrubs.

Blooms appear during May and June; small, creamy-white trumpet-shaped flowers, an inch long. Bush, five to six feet tall. Dense, spreading, round shape. Use: especially in shrubbery masses where dense foliage is required. Also forms a very attractive natural round hedge. Hardy; succeeds equally in the shade or sunshine; fast grower. **Planting Distance**, two and a half to three feet. **Prune** lightly in the winter or spring, when plants are dormant. Remove the old, weakened canes—also where they are too thick.

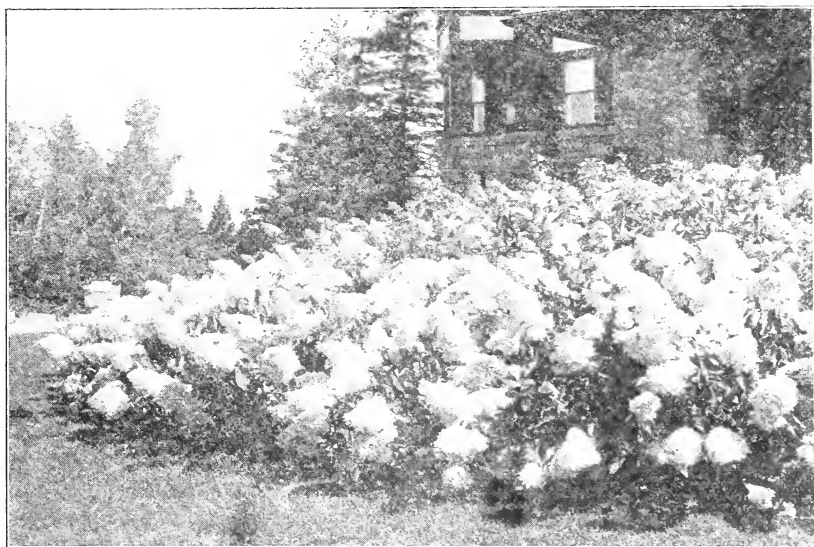
HYDRANGEA ARBORESCENS STERILIS (*Hills of Snow*)

little dainty flowers; somewhat resembles the Snowball, but much larger. Blooms in June-July, earlier than any other Hydrangea. Bush, four to ten feet tall, upright, spreading. Use: for planting in shrubbery mass or hedge, well back from walks or drives. Its large flowers show up effectively at a distance. Very hardy, fast grower, succeeds equally in shade or sunlight. **Planting Distance**, two and a half to three feet apart. **Prune** lightly in the winter or spring when plants are dormant. Cut out old, weakened canes entirely.

HYDRANGEA (Large-flowered) (*H. Pan. Grandiflora*)

This Hydrangea is especially popular, because it blooms late in the summer, when flowers are scarce. Its huge clusters of flowers, often a foot long or more, are larger than those of any other shrub. It also has beautiful foliage.

Bloom is white, turning to pink with the first frost. Bush, eight to ten feet tall, upright, spreading, fast-growing. Use in shrubbery masses and hedges, well back from walks and drives. Thrives best in the sun; very hardy. **Planting Distance**, two and a half to three feet. **Prune** lightly in the winter or spring, when the plants are dormant. Prune severely for quantity of flowers, less so for larger trusses.



Hydrangea paniculata 'Grandiflora'.



Hydrangea arborescens 'Sterilis' (Hills of Snow).



Japanese Rose, Globe Flower.
(*Kerria Japonica*.)

JAPAN QUINCE One of the most attractive early-flowering shrubs. (See page 38, under "Hedges," for complete description.)

JAPANESE ROSE, GLOBE FLOWER
(*Kerria Japonica*)

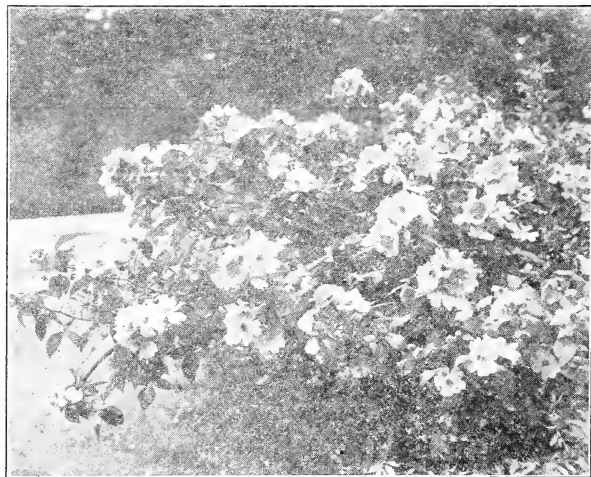
An old garden favorite. Dainty, graceful flowers and foliage; especially good near walks and drives where it will be seen closely and because it blooms throughout the entire season.

Blooms appear very early in May and continue throughout the summer; bright yellow, resembling small single roses. Bush, four to eight feet tall; broad-spreading, with many short, slender, drooping branches and twigs which retain the green color throughout the spring. **Use:** especially in border or as a specimen. Hardy; thrives in any good garden soil; it does well in sunlight, but prefers partial shade. **Planting Distance,** two feet apart each way. **Prune** lightly in winter or spring, when plants are dormant.

PRAIRIE ROSE This is a true Rose, but is listed here because it is most valuable as a shrub, one of the most beautiful for planting near the walks and drives where it will be seen closely. The best "Wild Rose."

Flowers, large, single, rose-colored, one and a half inches across; in large clusters. Blooms late in July or August; very attractive red seed-pods form the latter part of the summer. Flowers are like wild Roses, single, rose-colored. **Bush** grows six feet tall; forms dense, spreading bush. **Use:** extremely hardy, thrives everywhere even in trying situations. **Planting Distance,** two feet apart each way. **Prune** lightly in winter or spring when plants are dormant.

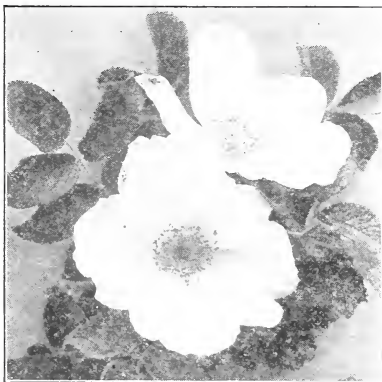
PRIVET Used for hedges more than any other shrub. When sheared closely it forms no flowers; otherwise, it will produce clusters of small flowers resembling the Lilac. Its bright glossy foliage makes a very attractive background for other low-growing shrubs. Grows 10 to 15 feet tall.



Prairie Rose (*Rosa Setigera*).

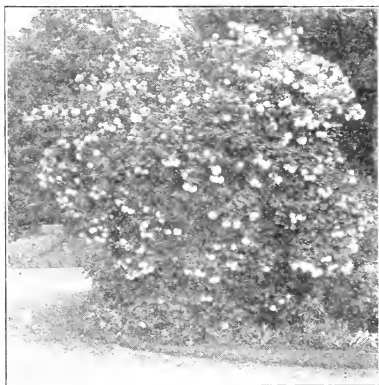
ROSA RUGOSA This is a true Rose, (Japanese) often planted in the extreme North for its flowers, but its greatest value is as a shrub, as it has unusually attractive dark green foliage and red seed pods.

Blooms appear in May and continue until midsummer. Flowers are large white single roses, three inches or more across, followed by clusters of large reddish seed-pods. Bush, four to five feet tall, dense upright growth. Use as hedge or shrubby mass; extremely hardy. Planting Distance, two feet apart. Pruning: do not prune except to remove the old bark-bound canes in the winter or early spring.



Rosa Rugosa.

SNOWBALL An old-time (*Viburnum Opulus Sterile*) garden favorite. Blooms in early spring, May or June. Flowers, large round clusters of many small sterile blooms. Bush, six to nine feet tall; upright dense growth. Use as center of shrubby masses or a background for small-growing shrubs. Hardy, adaptable everywhere. Planting Distance, two and a half to three feet. Prune in summer, just after blooming, cutting out old canes, shortening back the new growth.



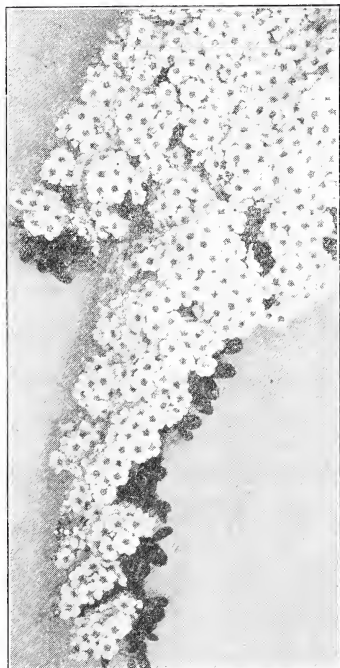
Snowball.
(*Viburnum Opulus Sterile*.)

SNOWBERRY One of the (*Symphoricarpus Racemosus*) daintiest, most attractive small shrubs, especially good for planting near walks and drives. Clusters of pearly white berries develop early and hang until late winter.

Blooms appear very, early May or June; small and insignificant, but the clusters of round, white berries are very attractive. Bush grows four to five feet tall, drooping gracefully. Use at the outer margin of the shrubby border, as single plants, also as a hedge, as it will stand a great deal of shearing; very hardy; thrives in the shade or sun. Planting Distance, one-half to two feet apart. Prune lightly in the winter or spring, when plants are dormant. Cut out old, weakened canes.



Snowberry.
(*Symphoricarpus Racemosus*.)



Spirea Van Houttei—The Best Shrub.

SPIREA Most attractive shrub of all; (**S. Van Houttei**) can be used in more ways and places and will give more satisfaction than any other shrub. The flowers and foliage are dainty and attractive near walks and drives where it will be seen closely, yet the foliage is dense and the flowers so numerous that it is equally satisfactory to plant where it will be seen at a distance. It is the favorite everywhere, succeeding on all soils and under all conditions. If you plant only one shrub, it should be Spirea.

Blooms early—May or June.

Flowers are white, very small. The clusters or "rosettes" appear in profusion the entire length of the branches. Form graceful, drooping wreaths.

Bush, four to six feet tall.

Use singly, in shrubbery border, hedge, or masses to hide the foundation of the house. Hardy, thrives in spite of neglect.

Planting Distance, two feet.

Prune lightly in the winter or when plants are dormant. Shorten back young canes and cut out the old, weakened ones entirely.



Shrubbery Planting.

The Spirea Van Houttei bears a small, dainty flower, but in such profusion that it is one of the most conspicuous shrubs. Note the two large clumps on either side of the walk.

SUMAC (*Rhus Glabra*) There is a growing appreciation of the beauty of our native plants, which are also hardier and more vigorous than imported varieties. The Sumac is one of our most beautiful native shrubs. Its large fern-like leaves make it especially attractive as a foliage plant.

Bloom appears in June, but its great attractiveness is in the long tapering clusters of crimson berries and fern-like foliage. **Foliage** turns bright red in the autumn. **Bush**, ten to fifteen feet tall, upright, spreading, fast grower. Use on rocky places or steep embankments where other shrubs will not thrive, or as a background for other shrubs. Extremely hardy; thrives best in the sun. **Planting Distance**, three feet apart. **Pruning**: for best results, cut back to the ground every other year or so. It will sprout fresh from the stump. If unpruned, it grows tall and ragged.

SUMAC (*Rhus Aromatica*) Similar to the Sumac described above, but smaller-growing and better for use where a low-growing shrub is desired. It has a very pleasant woody fragrance. **Flowers** appear early before the leaves, followed by clusters of small coral-red berries, which stay on throughout the winter. **Bush**, three to eight feet tall, low-spreading head, especially suited for planting at the edge of large shrubbery masses or under trees. Thrives everywhere. **Planting Distance**, two feet. **Prune** same as Sumac Glabra.

SUMAC STAGHORN This is tall-growing and is used where a small tree is desired. See description under "Ornamental Trees," page 12.

SWEET SHRUB, OR CAROLINA ALLSPICE (*Calycanthus Floridus*) This old favorite has small, velvety, dark red flowers, and a sweet, penetrating fragrance that is very pleasant.

Blooms in June and at intervals throughout the summer. Wood is also fragrant. **Flowers** are dark, dull red. **Bush**, three to six feet tall, upright. Use in shrubbery masses near walks or the outer margins of shrubbery masses. Hardy, succeeds in the shade. **Planting Distance**, one and a half to two feet apart. **Prune** in the summer, just after the first bloom.



Sumac Staghorn (*Rhus Typhina*). The fern-like foliage with long plumes of small red berries adds character and distinctiveness to shrubbery planting. This Sumac is used as a large shrub or a small ornamental tree. (See page 12.)

SYRINGA, OR MOCK ORANGE (*Philadelphus Coronarius*) One of the most fragrant white flowers. With yellow stamens at the center, the blooms resemble orange blossoms.

Blooms in June; white flowers with yellow centers, an inch or more across; fragrant. Bush, seven to ten feet tall, straight, upright growth. Use especially for a hedge to screen unsightly views and for planting in the centers of masses where tall, upright shrubs are required. Hardy, succeeds either in sun or shade. Planting Distance, two feet apart. Prune lightly in winter or spring when plants are dormant.



Syringa, or Mock Orange (*Philadelphus Coronarius*).

WEIGELA ROSEA (*D. Florida*) Bright rose-colored, trumpet-shaped flowers, like the Honey-suckle, borne in long, graceful sprays; suited for planting near the walks, as well as at a distance, but necessary in every shrubby border large or small.

Blooms very early—May or June, just after the Lilacs. Best flowering shrub of the season. Continues to produce some blooms throughout the summer. Flowers are a beautiful rose color, in great profusion; very striking and attractive. Bush, about six feet tall, upright, spreading growth, especially attractive foliage and unusually free from insects and diseases. Does well in the shade and under large trees where others fail. Generally adaptable everywhere. Extremely hardy. Planting Distance, two feet apart. Pruning: thin out the old wood, cutting part of it back to the ground any time during the late winter or spring.



Weigela Rosea (*D. Florida*).

The old-fashioned purple Lilac has a delicious fragrance that lingers in the memory from one blooming season to another. No shrub has been so highly developed under cultivation. The best new varieties have immense clusters of large plumes, laden with sweetness. Some are double, some single. The white, reddish purple, and blue varieties lend themselves to many color schemes.

The Lilac grows rapidly, flowers profusely, has beautiful rich green foliage, free from insects. It can be used in many ways; for hedges, masses, for hiding objectionable sights, and, when planted alone, it makes a good bush, which improves with age and bears more blooms each year. Cut flowers from the improved varieties find a ready sale on the city markets.

The old flower clusters should be removed, and the pruning done as soon as they are through blooming, as the bloom buds for next year form late the preceding summer.

LILAC, OLD-FASHIONED PURPLE
(*S. Vulgaris*)

So well known as to need no detailed description. Grows eight to ten feet

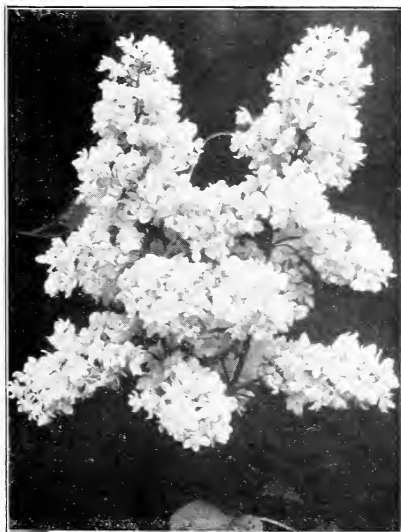
tall. Upright. Hardy. Suitable for mass or hedge.

LUDWIG SPATH Long plumes of single, perfectly formed, little flowers of a dark reddish purple. The inside of the flower is darker than the outside, showing beautiful contrasting shadows. Blooms in May or June. Upright; six to eight feet tall. Hardy.

MADAME ABEL CHATENAY Large trusses of plumes. The dainty little flowers are double and of exceeding purity and whiteness. The best of all the whites. Blooms in May or June. Upright; six to eight feet tall. Hardy.

PRESIDENT GREVY A light blue. Double. The trusses are unusually large and perfect. One of the rarest and best. Blooms in May or June. Upright; six or eight feet tall.

NOTE.—There is as much difference between the budded Lilacs—Ludwig Spath, Madame Abel Chatenay, President Grevy—and the Old-fashioned purple as there is between the new varieties of fruits and wild seedlings. The budded varieties are uniform, have larger bloom, greater fragrance and beauty.



Lilac—Madame Abel Chatenay, pure white.



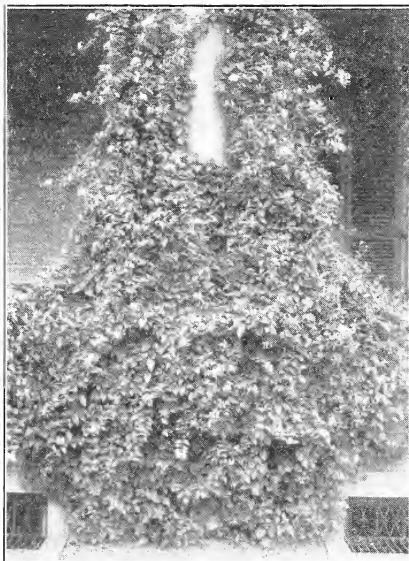
Lilac—Ludwig Spath, reddish purple.

Many and varied are the uses of climbing vines—to drape, to mantle, to cover, to frame, to beautify, to protect, to transform, to screen, to conceal. Their soft drapery mercifully hides ugly buildings and other unsightly objects. Shady pergolas, leafy arches, and pendant garlands on trees or over hedge-rows make beautiful pictures in themselves.

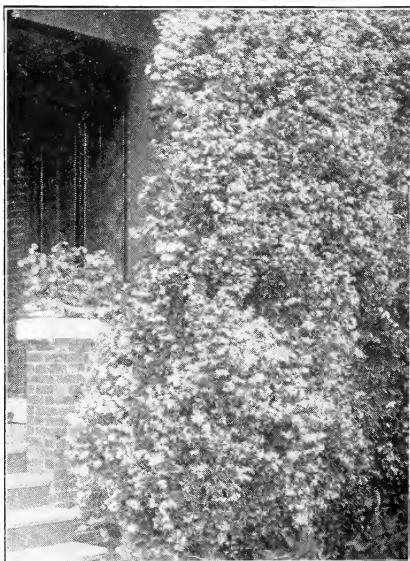
BOSTON IVY (*Ampelopsis Veitchii*) This vine clings to walls by little adhesive disks and forms a dense mat-like foliage, spreading rapidly over walls of two-story buildings, tall chimneys, foundations, or covering unsightly telephone and trolley-poles. In the autumn it glows with colors as brilliant as the Maple. It loses its leaves in winter, giving any dampness a chance to dry out. Wood and paint that have had the protection of its leaves all summer are found to be in better condition than the exposed parts. Set vines ten to fifteen feet apart. Should have covering the first winter following planting, after which it is hardy.

CLEMATIS, JAPANESE (*C. Paniculata*) Dainty little star-shaped white flowers, borne in clusters, completely cover the upper part of the vine, giving out a rich, honey-like fragrance that carries a great distance. The flowers are lasting and open late in summer, followed by the feathery seeds, which are very attractive. The brilliant, deep green, leathery foliage is very dense and beautiful, often holding on until early winter. The vine is a rapid grower and will clothe large spaces quickly. Set vines eight to twelve feet apart, depending on how dense a screen is desired. Hardy.

HONEYSUCKLE, HALL'S (*Lonicera Japonica Halliana*) Small trumpet-shaped flowers, a pure white, which gradually change to a light yellow. There is a powerful sweetness about them that is wonderfully pleasant and also attracts humming-birds. Blooms in June, August, and late fall. Foliage is a rich dark green, that continues through the winter in some places and lasts until Christmas in the North. Climbs up about fifteen feet. Set plants eight to twelve feet apart, when used as a screen. Set five feet apart, when vine is to train on the ground and form a carpet. Can be used in this way to cover unsightly banks. Hardy.



Honeysuckle.



Clematis, Japanese.

TRUMPET VINE (*Trumpet Honeysuckle*) *(Tecoma Radicans)* The Trumpet Vine is one of the most satisfactory vines. It has been truly named, for the flowers, borne in clusters at the tips of its many branches, have a marked resemblance to trumpets. They are about three inches long, and a striking orange-red or scarlet. It blooms from July to the end of the summer. The flowers are very attractive, and the foliage has an even greater charm—a combination seldom found in any one vine. The leaves are made up of small leaflets arranged along the stem, and the foliage is so heavy and luxuriant that it forms graceful masses, which are especially fine for covering fences, rock walls, banks, trellises, and tree trunks. The branches will cling to either wood or brick by means of little rootlets at the joints of the vine. With its rich, dark green foliage and graceful habits, it brings the atmosphere of the natural woods to your garden. It is hardy, a very fast grower, and will give results when planted in new places. Set vines ten to fifteen feet apart.

WISTARIA, JAPANESE *(W. Chinensis Multijuga)* The best permanent vine. A climbing tree in itself, often attaining great size and age. Can be trained on walls, arbors, etc., and is especially beautiful when the vine is growing over and through a live Locust tree—the foliage and flowers resemble each other, but the Wistaria blooms later than the Locust. The foliage is a light green. The delicate pea-like flowers are borne in clusters one to three feet long—several times longer than the old Chinese Wistaria. This is the true Japanese Wistaria, which is a beautiful purple. There are a hundred or more small flowers in one cluster. Blooms early, with a second small crop of flowers in August. Thrives best when left severely alone. One vine will cover a large space, but to get quick results it is best to set them every ten or fifteen feet. Don't prune; don't fertilize. Hardy.

For other climbers, see under Roses.



Wistaria.



Ivy and Climbing American Beauty Rose.

The hedge takes the place of a disfiguring fence and makes a beauty of a necessity. There are hedges for all kinds of surroundings, straight, upright Altheas or gracefully drooping Spirea, as well as the closely clipped hedge of Privet, the Japan Quince, or the thorny Barberry. For planting distances, see page 16.



Barberry (Japanese). The best low-growing protective Hedge—requires no attention.

BARBERRY, JAPANESE Graceful arching twigs. Foliage coppery scarlet in the fall. Many decorative berries, which hang on all winter. Three to three and one-half feet tall. Quick grower. Unusually hardy. Thrives North or South. Stands heavy shearing, but usually does best when permitted to grow naturally. The best low ornamental defensive hedge. Has many small thorns, but they will not tear the clothing. Succeeds in the shade.

HONEYSUCKLE, JAPAN BUSH The Japan Bush Honeysuckle makes a dense, gracefully rounded hedge. Grows five to six feet tall. See page 28.

JAPAN QUINCE Bright blooming, scarlet flowers in May, and shiny green foliage. A close-clipped hedge in bloom forms a wonderful pattern of scarlet and brilliant green colors. Grows six to seven feet tall. Has spreading, thorny branches, making a strong defensive hedge. Best protective hedge and wind-break for flower gardens. Stands pruning well. Very hardy. Prefers the sun.

PRIVET, CALIFORNIA Smooth, leathery, bright green leaves, almost evergreen. Stands severest pruning and shearing; cut out old, weak canes during winter. Shear new growths during summer after shoots have made several inches growth; can be trained high or low, and sheared with impunity. Eight to ten feet. Free from disease and insect pests. Sometimes kills back to ground in the North, but grows again. The fastest-growing and most popular hedge plant.

PRIVET, IBOTA This is the hardy Privet; beautiful dark, glossy foliage. Succeeds in the North, where California Privet is injured by winters.



Spirea Van Houttei. Makes a very graceful, free-growing Hedge'

SPIREA VAN HOUTTEI Best white-flowered hedge. Very graceful and does not run riot. Therefore it is good for informal gardens as well as for formal effects. Medium-sized plants are quoted for hedge planting.

RUSSIAN OLIVE (Oleaster) The Russian Olive described on page 12 is the ideal (*Elæagnus Angustifolia*) plant for tall hedges. Planted singly, it is a small tree, but, planted two to four feet apart in a hedge-row, it makes a dense, branching growth, forming a rounded solid mass of silvery green foliage, ten to twelve feet tall. The growth is very bushy and compact, and makes a uniform, regular hedge. It is also used as a wind-break along with taller-growing trees, as its dense growth fills in the space near the ground, which the taller trees leave open. For a wind-break, see page 10.

There are many other plants which make attractive hedges, but should not be sheared as heavily as the Barberry, Privet, or Japan Quince. The following all make graceful decorative hedges: Althea, Deutzia, Lilac, Hydrangea, Syringa, Snowball, Weigela, Rosea, and Snowberry. Also, such Roses as Conrad F. Meyer, the Rugosas, Dorothy Perkins, and the Persian Yellow.



Privet. Most widely used for Hedges. There is now a hardy form for northern localities.

THE ROSE—"QUEEN OF FLOWERS"

These flowers of rarest beauty, in most varied forms, and with the sweetest perfumes, may be had from frost to frost in one glorious succession. The hardy Japanese Rugosas open before the others, then the old-fashioned Persian Yellow, followed by a host of hybrid Perpetuals (H. P.), which make June the "Month of Roses." After the hybrid Perpetuals (which really are not perpetuals) come the hardy new race of hybrid Teas (H. T.), which have the hardiness of the hybrid Perpetuals and the refined, fragrant, and delicate beauty of the Teas. Most wonderful of all, they possess the Teas' habit of blooming freely and continuously throughout the summer and autumn. Such loveliness repays many times over your care in cultivation and in providing deep, fertile, well-drained beds. They require a sunny, sheltered spot, away from the roots of shade trees which would rob them of much needed fertility.

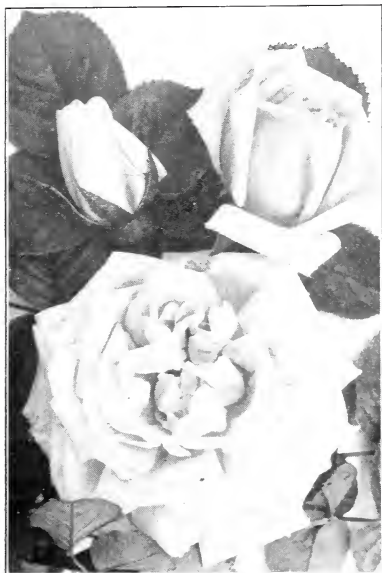
ANNIE MULLER (Pol. H.) Brilliant, shining pink flowers, medium size (twice as large as Baby Rambler). The bush is spreading, a larger, stronger grower and more attractive than the Baby Rambler. It is a constant and profuse bloomer all summer long. The old flowers drop off without detracting from the appearance of the bush. It is the ideal "Baby" Rose for borders and beds. Can be transplanted to a pot in the fall and taken in the house, where it will continue to bloom all winter, a cheery bit of red and green. Prune lightly in late winter or early spring. An improved Baby Rambler—superior in every way. Hardy.

CLIMBING AMERICAN Wonderful bright scarlet Rose. The blooms are borne singly and are suitable for cutting. Resembles its American Beauty parent in form and color and its Wichuriana parent in hardiness, vigor, and resistance to diseases. Large quantities of bloom, three inches across, are borne in June, and occasional flowers throughout the season. Most beautiful climbing Rose; hardy, stands heat and drouth; foliage does not burn in the sun. Prune in late winter or early spring, cutting out old or weakened canes.

COCHET See under Maman Cochet, page 42, and White Cochet, page 43. (The hardiest and best Tea Rose.)



Climbing American Beauty Rose.
A wonderful new climbing Rose. The flowers are large and suitable for cutting.



Conrad F. Meyer. The hardiest Rose.

loose clusters. Equal to *Crimson Rambler* in every way, but more elegant, larger, and somewhat fragrant.

The foliage is small, dainty, and a glossy dark green; hangs late, almost evergreen. The vines twine around their support with a grace that is found in no other climber, and are beautiful with or without bloom. By far the best climbing Rose. An unusually vigorous grower. A three-year-old vine at Stark City made forty feet growth. Can be planted in rows and cut back to form a hedge, or trained over fences and trellises. Cut out old canes. Hardy.

GENERAL JACQUEMINOT (H. P.)
(For cut flowers)

"General Jack" is a celebrated, all-around Rose. Bright, shining, scarlet-crimson. Rich, shapely buds, soft velvety petals. Fragrant. Prune hard during late winter or early spring. Very hardy.

CONRAD F. MEYER (Hy. Rugosa)
(Bedding and shrubbery)

Silvery pink, double. Flowers early, continuing throughout the season; very fragrant. For hedges and the lawn. A splendid bedding Rose for the extreme North, where others are too tender. Very vigorous and hardy. Will not mildew. Best hybrid Rugosa. Do not prune except to remove old canes.

CRIMSON RAMBLER (Pol.)
(Climber)

Large trusses or clusters of bright, medium-sized, double, crimson flowers. The most popular climber for walls, porches, and trellises. Unusually vigorous and hardy. Cut out weak canes as they get older.

DOROTHY PERKINS (H. Wich.)
(Climber)

Beautiful shell-pink flowers, which after a time fade to a deep rose; double; petals crinkled and rolled back. Flowers in large,



Dorothy Perkins.
The most graceful climbing Rose.



Gruss an Teplitz (Virginia R. Coxe)
The darkest red.



Maman Cochet. The hardest Tea Rose.

GRUSS an TEPLITZ (Virginia R. Coxe)
(H. Ben) (For cut flowers, shrubs, or hedge)

Dazzling, bright scarlet. Fragrant. Produces flowers in clusters. One of the best dark red Roses for continuous and profuse bloom. Forms beautiful contrast with Snow Queen (see page 43). Rank, vigorous grower. Plant far apart. Prune by thinning canes during late winter or early spring. Hardy.

MAMAN COCHET (T.) The Queen
(For cut flowers) of Roses.

Rich, rosy, coral pink. Broad, graceful, re-curved, shell-like petals. Large, exquisitely tapering buds of rare fragrance. Most profuse, continuous bloomer, and the hardiest of all the Tea Roses, which, as a class, are only fairly hardy.

North of St. Louis and Philadelphia, the Cochetts should be protected by wrapping the tops in heavy paper or straw and raking leaves six or eight inches high around the base. The beautiful, continuous bloom pays for this winter protection many times over. Prune lightly late in the winter or early spring.

MARSHALL P. WILDER (H. P.)
(Synonym—Alfred Colcomb)
(For cut flowers)

Deep, dark red. Large, perfect flowers. A clean, vigorous grower and a remarkably constant bloomer for its class. Fragrant. Strong grower. Prune back hard during late winter or early spring. Hardy.

PAUL NEYRON (H. P.)
(For bedding in masses and cut flowers)

Bright, clear pink. The largest rose of all; for this reason, and because of its many petals, it is often called the "Peony Rose." Fragrant. Continuous bloomer. Strong, tall grower, almost thornless. Very hardy. Prune heavily during late winter or early spring.

PERSIAN YELLOW (Austrian Briar) Deep, golden yellow. Sweetly fragrant. (For shrubbery planting) Seen in old-fashioned gardens; beloved by our grandmothers. Blooms very early. Old vines should be pruned very little, except to take out weak canes during late winter or early spring. The head should be well thinned; canes left for flowering should not be pruned. Hardy everywhere.

ROSA RUGOSA (Japanese) The flowers are white, large, single, with broad, (For shrubbery and hedges) graceful petals, and are followed by clusters of large, orange-red seed-pods. The bush is heavy, dense, four to five feet tall. The rich, dark, leathery foliage, oddly wrinkled and shiny, is beautiful in itself. Hardy as oaks, remarkably free from insects and other pests. Can be planted near the seaside and in the extreme North, where others fail. The best Rose for ornamental hedge and as a shrub. Do not prune, except to remove bark-bound canes.

SNOW QUEEN (Frau Karl Druschki) (H. P.) Undoubtedly the best and largest (For bedding and cut flowers) white Rose, justly called "the white American Beauty." Pure snow-white with faintly tinted shadows. Very large, tapering buds, which open well. Blooms off and on throughout the season. Remarkably vigorous, tall grower. For bedding and cut flowers. Plant three feet apart—often grows four to five feet first year. Very hardy. Prune moderately during late winter or early spring.

WHITE COCHET (T.) Beautiful white. A sport of the Maman Cochet and (For cut flowers) resembles it in every way except color. One of the best and most profusely blooming white Roses.

WM. R. SMITH (H. T.) Creamy white with shadings of pink. Large, full, (For cutting and bedding) beautifully formed, tapering buds on long stems. Has the good qualities of its parents, Kaiserin Augusta Victoria and Maman Cochet. The bush is extra vigorous, branching, and a profuse bloomer. Firm, glossy foliage. The best Rose for cut flowers. Prune lightly during late winter or early spring. Hardy with light protecton.



Snow Queen (Frau Karl Druschki) (H. P.) The favorite White Rose

"Hardy perennials" are plants of permanent beauty. They will very nearly take care of themselves. Their culture is refreshingly easy, compared with that of "tender" annuals, whose seed must be sown every spring—often under glass or indoors—or with the culture of tender flowers which are killed by the first frost.

They were the favorites in the old-fashioned gardens. But how different are the Peony, the Phlox, and the Iris of to-day! What greater wealth of color and bloom! What a number of different and exquisite forms, so changed and multiplied that any relation to the old-fashioned flowers seem almost impossible! But the relation is there, for they retain the old-fashioned hardiness and vigor, producing more abundant blooms and multiplying as they grow older.

Plant the Peony, the Phlox, and the Iris. They merely go to sleep in the autumn, preparing for greater loveliness and beauty each succeeding spring.

PEONY

The Peony is the most popular and widely planted of all hardy flowers. It is grand without being gaudy, large without being coarse, fragrant without being pungent. It is easily grown. It is hardy wherever apple trees can be grown, and in the extreme North requires very little protection. Once established, it becomes a permanent flower, and is practically free from diseases and insects. It is ideal for cut flowers; is used by the carload on Memorial Day, and is often cut and held in cold storage a month for this day, and for decorative purposes at weddings and celebrations. Many people make "pin money" every year by selling cut flowers from a few clumps of Peonies at 75c to \$1.00 per dozen.

COURONNE d'OR White, reflecting yellow, with a ring of golden stamens (Crown of Gold) bedded at the base of the central petals. A very large, full, well packed, solid flower; semi-double, superb form, late, fragrant. A good grower and reliable bloomer. For cut flowers and landscape. This is one of the best Peonies for every purpose.



Festiva Maxima. Fragrant; the favorite Peony.



Couronne d'Or (Crown of Gold).
One of the largest Whites.



Felix Crousse. Brilliant red.

DELACHEI Large and full, deep purple-crimson. The best dark-colored: semi-double; pleasant odor. Late mid-season. Strong grower and profuse bloomer. For cut flowers and landscape.

DORCHESTER Beautiful light clear pink, creamy center, perfectly double, rose-shaped bloom. Sweet-scented. Late. Very profitable for cut flowers; adapted to landscape work.

DUCHESSE de NEMOURS Pure white, cup-shaped bloom with sulphur-white collar. Very fragrant. Of all Peonies, not one is so exquisite as the Duchesse de Nemours in the half-open state. Early bloomer; long stems. Unusually profitable for cut flowers; adapted to landscape work.

FELIX CROUSSE Brilliant ruby red with flame-colored center. Large, compact, ball-shaped flower. Fragrant; mid-season. Free bloomer. Extra good for cut flowers and for landscape.

FESTIVA MAXIMA Pure white, usually with a few of the central petals tipped with drops of carmine. Immense double bloom, spicy fragrance. A very vigorous grower, with flowers on long, stiff stems. The best of all the whites. Keeps well. Most profitable for cut flowers and a great flower for the garden.

JEANNE d'ARC Soft, delicate pink, with light "yellow-white" center, spotted (Joan of Arc) with carmine, a charming combination. Fragrant. Sure, profuse bloomer. Very good for cut flowers. The best and most popular tri-colored Peony. Mid-season.

MADAME LEBON Very large, full, showy, compact bloom. Uniform color of bright cherry pink. Mid-season. Fine for cut flowers or landscape.

NIGRICANS Dark, uniform crimson. Globular, compact bloom; showy. Mid-season. Good for cut flowers. Fine for landscape.

PRINCE IMPERIAL Dark purplish red. Semi-rose-shaped bloom. Very large. Strikingly beautiful. Moderately late. For landscape or cut flowers.

"THE RAINBOW FLOWER"

The old-fashioned "Blue Flag" is the only form of the Iris generally known. Its beauty has never been fully appreciated—perhaps because it has shown such great willingness to thrive and bloom, and such freedom from all pests and diseases.

The many newer and more wonderful forms have also been neglected. They have a grace and beauty that is beyond description. Such loveliness of form and harmonious tints can be found elsewhere only among Orchids.

BLACK PRINCE Large, conspicuous petals; beautiful dark purplish blue, finely veined with lighter shades. Medium size; flower stem, eighteen inches to two feet. Early-blooming. Hardy.

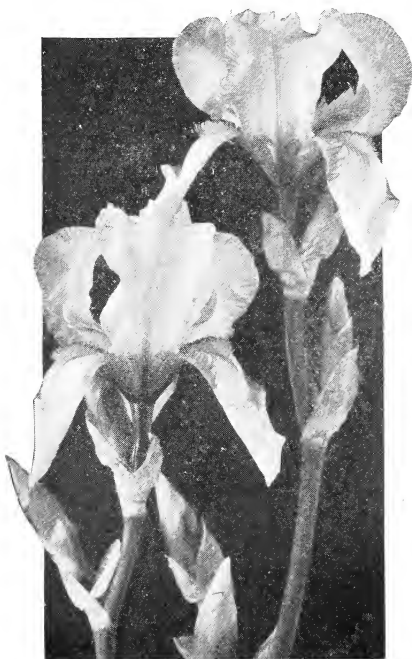
CELESTE The entire flower is a uniform tint of pale lavender. One of the largest, most beautifully colored Iris. Three feet tall.

FLAVESCENS Exquisite creamy white blossoms on stalks, two to three feet tall. Long blooming season. Large size, sweet-scented, and fine for cut flowers.

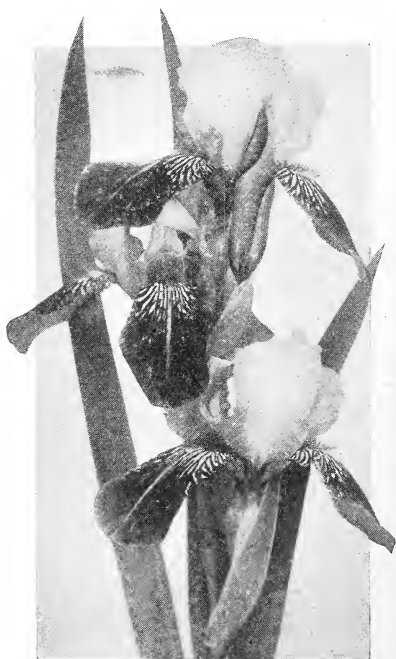
MADAME CHEREAU A lovely white; all petals elegantly frilled with a wide border of clear blue. A tall, stately, queenly flower, one of the most beautiful. Large size; flower stalks, two to three feet. Long blooming season. Especially fine for cut flowers. Hardy.

SANS SOUCI The upright petals are canary yellow, veined with dove color; the drooping petals are interlaced and edged with a dull maroon. Very showy. Profuse bloomer. Small size. Hardy.

SIBERIAN BLUE Exquisite blue. Fine for cut flowers. It has narrow, grass-like foliage, with tall stems bearing small flowers. The upright petals are narrow, and almost straight. The drooping petals are broader, but dainty. Profuse bloomer. extremely hardy and resistant to drouth.



Madame Chereau. White, frilled with blue.



Sans Souci. Canary yellow, dull maroon

The Phlox is a native of our western prairies. There were thousands of acres of wild Phlox in this country before the white man ever saw it. They are used to the winds and heat of summer and the blizzards of winter. The improved, cultivated varieties show how much the gardener can do to assist Nature in developing more radiant and graceful forms. *Phlox* means "flame"—and where else will you find the glowing brilliancy of a cluster of these charming flowers? And where is there a flower that will yield such a wealth of continuous bloom, regardless of storms, heat, or drouth all through the middle of the hot summer?

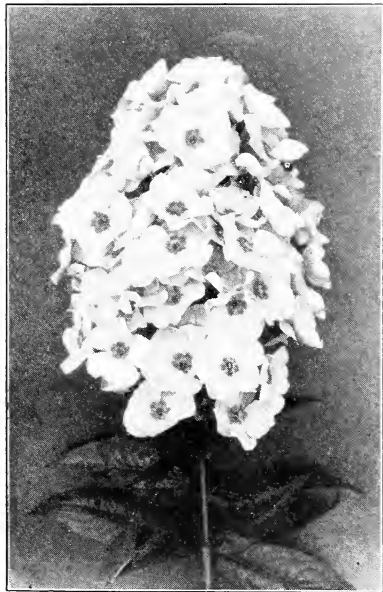
COQUELICOT Red, medium height. An orange-scarlet or vermilion, with a small purple eye. The finest, brightest, and most noticeable red. It stands out in the garden like a flame of fire.

FRAU VON LASSBURG White, medium to tall. A pure snow white, the largest and best of that color. Especially good for cut flowers.

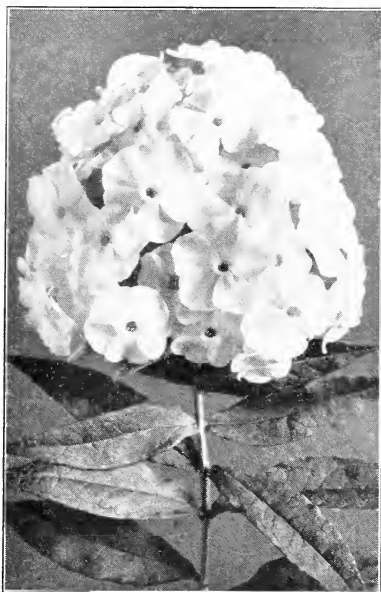
LE MAHDI Blue; medium height. A deep pure violet-blue. The best of this color. Very large flowers.

MISS LINGARD White, with a light pink center; tall. A creamy white, with faint pink at the center; a very attractive flower; especially valuable for cutting. Grown largely by florists. While it can not be classed as an ever-bloomer, it will produce several crops in a season. A great favorite with everyone.

RICHARD WALLACE White, with a crimson eye. Tall. The large white petals are tinted with lavender, which gives it a very striking appearance. Hardy and almost a continuous bloomer. One of the best for cut flowers.



Miss Lingard. White with pink center.



Frau Von Lassburg. Pure white.

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Dorothy Perkins Climbing Rose.

SERVICE

Anyone who has given serious and continued thought to the subject must inevitably have come to the final conclusion that real satisfaction and happiness lie in rendering service to others.

That fundamental principle is being put into effect more and more by individuals and by firms, and it has been demonstrated over and over that profits are the natural result. "A pleased customer is the best advertisement."

The service which we aim to render is not confined to supplying first-class trees and plants. The pleasure and profit to be had in fruit or ornamental trees and plants depends chiefly upon the planter himself.

Our first object, therefore, is to help you to plant judiciously—i. e., where, when, and what to plant; second, how to know and how to get first-class trees and plants; third, how to plant and care for them.

In our three booklets, our Catalogue of Fruit and Ornamental Trees and Plants, "Inside Facts of Profitable Fruit-Growing," and "How to Beautify Your Home Grounds," we have gathered from every reliable source available the information which may be required to insure your success.

Our Catalogue is sent free of charge to anyone who is interested. For the other booklets we make a nominal charge of ten cents per copy, but send them free to every customer.

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